Aleksei Tcelishchev

Principal Software Engineer and DevOps Architect

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EXECUTIVE SUMMARY

Experienced Senior DevOps, Cloud Infrastructure, and Software Engineering Professional with **20+ years (2004–2026)** of hands-on experience designing, scaling, and operating mission-critical distributed systems.

- **Upwork Top Rated Plus: 10,600+** tracked platform hours with a sustained **100% Job Success Score** across **93** contracts.
- **Australian Computer Society (ACS) Accredited:** Formally assessed as a **Software Engineer (ANZSCO Code 261313)** with verified IELTS English proficiency.
- **Deep Technical Mastery:** Hands-on mastery across large-scale distributed storage (**Ceph**, **AWS EFS**, **IPFS**), immutable bare-metal and cloud **Kubernetes** (EKS, **GKE**, **k0s**, **k3s**, **Talos OS**, **Cilium**), serverless architectures (**Serverless Framework**, **Cloudflare Workers**, **AWS Lambda**), and production agentic systems (**LangGraph**, **CrewAI**, **Hatchet**, **A2A**) with isolated container runtimes.

CORE COMPETENCIES & TECHNICAL SKILLS

- **Infrastructure as Code & GitOps:** Terraform, Ansible, ArgoCD, Helm, GitHub Actions, GitLab CI, Serverless Framework
- **Cloud & Virtualization:** AWS (EKS, EC2, RDS, Lambda, API Gateway, S3, Cognito), Google Cloud Platform (GCP, Firebase), Bare-Metal, Proxmox VE, K3s, Docker, Virtuozzo
- **Web3 & Blockchain:** Ethereum, Smart Contract Security Audits, DeFi Platforms, Web3.py, Multi-Chain RPC Node Load Balancing, Verification Nodes
- **Storage & High-Load Data:** Ceph, SeaweedFS, AWS EFS, NFS, iSCSI, PostgreSQL, Oracle, MySQL, Neo4j, Supabase (RLS), Redis, Elasticsearch, ClickHouse
- **Security & Reliability:** Zero-Trust RBAC, Supabase Row Level Security (RLS), Secrets Management, Prometheus, Grafana
- **AI & Autonomous Agents:** Multi-Agent Orchestration, Production RAG Pipelines, Vector Databases (Pinecone, Chroma, pgvector), Secure Sandboxing
- **Languages & Frameworks:** Go, JavaScript, Python (FastAPI, Django), Node.js (Express), Bash/POSIX Shell, Svelte/SvelteKit, Astro

PROFESSIONAL EXPERIENCE

Webomage | ***Principal Software Engineer & DevOps Architect*** | ***May 2006 – Present***

- Software Development: Engineered high-performance internal tools using **Rust** (**Kubernetes** TUI) and **Python** (Infrastructure automation), replacing brittle shell scripts with robust, type-safe CLIs.
- Silicon Valley SRE & **Python** Scaling (Openmart): Lead SRE for a seed-stage venture. Refined **AWS** infrastructure and managed high-concurrency **Kubernetes** clusters. Optimized **Redis**/PostgreSQL performance for data-heavy search operations.
- Automation: Built "Meta-Deployment" pipelines using **Terraform** and **Python** to orchestrate synchronous frontend/backend updates, eliminating drift.

- Real-Time Media & **WebRTC**: Built and operated real-time communications infrastructure across client engagements. Deployed self-hosted **Ant Media Server** for EventCartel's live paid-event streaming platform — instances spawned on demand ahead of each event and torn down afterwards, with automated stream provisioning and a WebSocket authorization layer enforcing a single live connection per ticket. Operated **LiveKit** (SFU) and **Retell** as real-time transport for the Meetocean.ai healthcare voice-AI platform. Earlier: end-to-end audio/video pipelines (stream client → media server → player, Facebook Live / YouTube Live APIs) for Digital Kickstart's webinar product, and **WebRTC** + screen sharing at Appinux.
- Modernization: Led the complete re-architecture of client platforms from legacy monoliths to serverless edge architectures (**Astro**/Svelte on **Cloudflare Workers**), improving global latency to <50ms; Workers is the standing delivery stack for small client sites.
- Institutional Blockchain Infrastructure: Crafted and deployed Ripple/Stellar verification nodes and IBM **Hyperledger Sawtooth** systems. Architected **DeFi** staking platforms serving thousands of users.
- Built highly secure, multi-signature wallet systems for **DeFi** platforms using **web3.py** and smart contracts.
- AI Voice Assistant Productionization (Healthcare): Architected a real-time, low-latency AI voice platform using **FastAPI**, **Twilio**, **OpenAI**, and ElevenLabs. Integrated Vector Search (**Milvus**/PgVector) for rapid knowledge retrieval and RAG. Implemented automated scheduling logic reducing human call volume by 70%.
- Institutional Blockchain: Crafted and deployed verification nodes and private networks using Ripple, Stellar, and IBM **Hyperledger Sawtooth** for institutional-grade **DeFi**/payments infrastructure.
- Developed and deployed institutional-grade blockchain infrastructures (Ripple, Stellar, Hyperledger).
- AI Voice & Telephony: Architected a real-time, low-latency AI voice platform using **FastAPI**, **Twilio**, **OpenAI**, and **ElevenLabs**, integrated with **PgVector** for instant knowledge retrieval — reducing human call volume by 70%.
- Consulted for 70+ global clients on complex cloud migrations and system integrations. *Technologies:* **Kubernetes**, **Cloudflare Workers**, **Supabase**, **TypeScript**, **Go**, **Python**, **Astro**

Client engagements delivered through Webomage — 36 engagements, most recent first:

Artemio quiero comer! | ***Full-stack & Cloud Engineer*** | ***Apr 2026 – Present*** | ***Playa del Carmen, MX / Remote***

- Menu Platform: Built the restaurant's public web application on **Astro** with **Svelte** islands, deployed to **Cloudflare Workers** — high-fidelity menu displays, an order flow, and automated PDF catalog synchronisation.
- Multilingual Delivery: Shipped Spanish, Russian and English translation settings across the catalogue and order surfaces.
- Quality & Telemetry: Wired **Playwright** end-to-end coverage and **Microsoft Clarity** behavioural analytics into the delivery pipeline. *Technologies:* **Astro**, **Svelte**, **Cloudflare Workers**, **Playwright**, **Microsoft Clarity**

1945 Social Club | ***Full-stack Engineer*** | ***Jul 2026 – Aug 2026***

- Legacy Replacement: Rebuilt the venue's legacy site as a **Vite** + **React** application under a parity lock, running staged beta and gamma environments against the original for a controlled cutover.
- Visual Regression: Automated parity verification with **Playwright** and **pixelmatch** pixel-diffing, catching layout drift against the legacy reference.

- Zero-Runtime Menu: Delivered the menu as a prerendered 3-card landing plus six category documents with no framework at runtime. *Technologies:* **Vite**, **React**, **Playwright**, **pixelmatch**, **TypeScript**

Evercred | ***Senior Platform & Data Architect*** | ***Apr 2026 – Jul 2026***

- Infrastructure Optimization: Standardized **CI/CD** pipelines and orchestrated the migration of background data processing systems to modern scalable architectures.
- Advanced Data Architecture: Engineered a high-performance **ClickHouse** analytics layer alongside **AWS RDS** and ECS, implementing advanced data wiring across the platform's distributed microservices. *Technologies:* **ClickHouse**, **AWS RDS**, **AWS ECS**, **CI/CD**, **Microservices**

Scribely | ***Media Automation Engineer (AWS)*** | ***Jan 2026 – Feb 2026***

- Audio-Description Pipeline: Implemented **AWS**'s reference workflow for producing an audio-description track and a silent control track from supplied narration text and timestamps — Polly for narration synthesis, **Elemental MediaConvert** for track generation and muxing, orchestrated with Lambda and **Step Functions** over S3.
- Validation: Exercised the pipeline end to end against a 3-hour source video to confirm the output matched the intended result, on a fixed two-week delivery window. *Technologies:* **AWS Polly**, **Elemental MediaConvert**, **AWS Lambda**, **Step Functions**, **Amazon S3**

VXG Inc | ***DevOps Engineer (AWS & K3s)*** | ***Nov 2025 – Feb 2026*** | ***via Upwork***

- Edge **Kubernetes**: Automated the deployment, monitoring and troubleshooting of VXG's video streaming software on **AWS** and bare-metal **K3s** edge clusters, including immutable-host **Kubernetes** on **Talos OS** and k0s.
- Streaming Infrastructure: Built scalable, secure, and highly automated infrastructure for high-volume real-time video delivery pipelines, integrating **Ceph**, **SeaweedFS**, and distributed shared storage solutions.
- Architecting shared storage solutions with **Ceph** and **SeaweedFS** for distributed, high-volume video streaming.
- Edge **Kubernetes**: Architected and automated the deployment, monitoring, and troubleshooting of VXG video streaming software on **AWS** and bare-metal **K3s** edge clusters.
- Building scalable, secure, and automated infrastructure for high-volume video streaming.
- Streaming Storage: Worked on the storage tier for high-volume real-time video delivery pipelines, using **Ceph**, **SeaweedFS** and distributed shared storage.
- Built scalable, secure, automated infrastructure for heavy storage workloads.
- Architecting shared storage solutions using **Ceph** and **SeaweedFS** to handle massive distributed video data.
- Building scalable, secure, and automated infrastructure optimized for high-volume storage. *Technologies:* **AWS**, **K3s**, **Talos OS**, **k0s**, **Ceph**, **SeaweedFS**

Featherglass | ***Server DevOps Consulting & Admin*** | ***Jun 2025 – Feb 2026*** | ***via Upwork***

- Cloud Operations: Managed **Google Cloud Platform** (**GCP**) and **Firebase** infrastructure, providing continuous DevOps maintenance, account administration, and proper service configuration.
- Architected and maintained high-availability **Google Cloud** and **Firebase** environments for high-traffic apps.

- Observability & Deployment: Configured robust monitoring using **Google Cloud** Operations Suite (Stackdriver) and automated **Firebase** application deployments via continuous integration pipelines.
- Security & IAM: Enforced strict Identity and Access Management (IAM) controls and hardened **Firebase** security rules to establish a zero-trust model for data access and API endpoints.
- Platform Rewrite: Re-architected a backend-less **Next.js** MVP (**Firebase**, **Firestore**, STT, Storage) into a fully specified, E2E-tested (**Gauge**) engine with substantial feature enhancements.
- Optimized cloud resource allocation and implemented robust security protocols.
- Real-Time Clinical Sessions: Engineered frontend features managing 2h+ live patient sessions with parallel live transcription and speaker diarization, recording pause/resume mechanics, and post-session processing via Vertex AI.
- Feature Engineering & QA: Engineered robust frontend features to manage 2h+ live patient sessions with real-time transcription and recording pause/resume mechanics, backed by continuous E2E testing pipelines utilizing the **Gauge** framework. *Technologies:* **GCP**, **Firebase**, **Firestore**, **Vertex AI**, **Next.js**, **Gauge**

Inovus Investments Inc. | ***Full-stack & AI Developer*** | ***May 2025 – Sep 2025*** | ***via Upwork***

- System Optimization: Reduced AI agent cold-start latencies by 45% through custom container layering and pre-warming strategies.
- AI Sandbox & Data Isolation: Designed a secure, VPC-isolated container execution environment — VS Code extension + binary-packed runtime container + per-run sandbox spawned with the exact system libraries and **Python** packages required, including legacy targets (**Python** 3.6–3.9, BugsInPy and similar historical datasets).
- AI Sandbox Architecture: Designed a secure, VPC-isolated container orchestration system for LLM-driven code execution, utilizing Vector Databases (**Pinecone**/Qdrant) for high-speed semantic retrieval and context awareness.
- Optimized container startup times and resource utilization for a high-performance debugging assistant.
- Developed automated monitoring and metrics collection for container performance.
- Agents Infrastructure: Built the underlying orchestration engine on **Hatchet** durable task queues with **A2A** agent-to-agent messaging, enabling LLM-driven code execution, error analysis, and iterative self-correction loops; extracted event-driven logic wired through client code into verified interaction schemas.
- Mobile Real-time Alignment: Implemented P2P synchronization logic for a Flutter-based performance alignment application.
- Designed and implemented a secure container orchestration system for isolated AI-agent code execution.
- AI Sandbox: Designed a secure, VPC-isolated container execution environment for agent code runs, utilizing **Pinecone** and **Qdrant** for semantic context retrieval.
- Agents Infrastructure: Built the underlying agents orchestration engine, enabling LLM-driven code execution, error analysis, and iterative self-correction loops.
- Benchmarking: Targeted measurable bug-resolution improvement on SWE-bench through multi-agent processing.
- Multi-agent AI Engine: Architected and developed an autonomous multi-agent **Python** debugging system with a custom VS Code extension as the developer-facing interface; agents deliberate in an llm-council pattern, then re-validate proposed fixes against the project's own test suites. *Technologies:* **Python**, **Docker**, **Hatchet**, **A2A**, **Pinecone**, **Qdrant**, **Flutter**

BeeTechy LLC | ***Senior DevOps Engineer*** | ***Sep 2024 – Jun 2025***

- Architected and migrated legacy **AWS** deployments to a unified, Terraform-managed **Docker** and **Kubernetes** ecosystem, utilizing **ArgoCD** for GitOps continuous delivery.
- Cloud Modernization: Orchestrated the migration of legacy EC2 environments to modern Terraform-managed containerized solutions.
- Migration & GitOps: Orchestrated the zero-downtime migration of production workloads from Heroku/EC2 to a Terraform-managed **AWS ECS** environment, leveraging **ArgoCD** for automated deployments.
- Compliance: Hardened infrastructure to meet SOC 2 Type II requirements, including centralized logging and audit trails.
- Implemented robust CI/CD pipelines using **GitHub Actions**, streamlining deployment frequency and reliability.
- Optimization: Reduced monthly cloud spend by 35% through rightsizing and implementation of Auto-Scaling policies.
- CI/CD Revolution: Implemented advanced **GitLab CI**/CD pipelines, reducing deployment times from hours to minutes.
- Arquitecturé y migré despliegues existentes en **AWS** a soluciones gestionadas con **Terraform** y basadas en Docker. Optimicé costos en **AWS** y brindé soporte en CI/CD.
- Optimized **AWS** infrastructure resulting in a 30% reduction in monthly cloud expenditure.
- Architected and migrated legacy **AWS** deployments to a unified, Terraform-managed **Docker** ecosystem.
- Architected legacy **AWS** migrations to a unified Terraform-managed **Docker** ecosystem.
- Provided expert consultation on AI infrastructure scaling for high-growth SaaS clients. *Technologies:* **AWS**, **Terraform**, **Docker**, **Kubernetes**, **ArgoCD**, **GitHub Actions**, **GitLab CI**

Meetocean.ai | ***Python Engineer – AI Voice Assistant (Healthcare)*** | ***Apr 2025 – May 2025*** | ***via Upwork***

- Real-Time Voice Infrastructure: Owned the infrastructure for a low-latency phone-agent loop — speech-to-text, LLM processing and text-to-speech stitched together over **Twilio**, **Whisper**, **ElevenLabs** and **FastAPI** with WebSocket audio streaming.
- Real-Time Transport: Operated **LiveKit** (SFU) and **Retell** as the live transport layer while the architecture was iterating rapidly.
- Legacy CRM Integration: Delivered integration into a customer's .NET CRM with severely limited API surface — the hardest constraint on the engagement. *Technologies:* **Python**, **FastAPI**, **LiveKit**, **Retell**, **Twilio**, **Whisper**, **ElevenLabs**

Data Sleek LLC | ***DevOps Engineer*** | ***Feb 2025 – May 2025*** | ***via Upwork***

- Bare-Metal IaC: Built the Data-Sleek Lab environment as Terraform-managed **Proxmox** infrastructure — the same bare-metal IaC pattern applied to an internal R&D estate.
- Migrated large-scale WebApps to virtualized environments using **Proxmox** and Terraform.
- Managed Operations: Delivered ongoing DevOps support across Data Sleek's existing client estate.
- SaaS Delivery: Provided DevOps engineering for the Elysium SaaS application.
- Implemented Terraform-based **Proxmox** automation for internal lab and client infrastructures.
- Migrated large-scale WebApps and **WordPress** installations to virtualized environments.

- Migration: Moved the client's web application and **WordPress** properties onto virtual-machine hosting. *Technologies:* **Terraform**, **Proxmox VE**, **Linux**, **WordPress**

Kayse (Renowned Marketing LLC) | ***AI Engineering Lead / Engineering Manager (Legal CRM)*** | ***Dec 2024 – Jan 2025*** | ***via Upwork***

- Live Voice Agents: Delivered outbound live calls to end clients over **Retell** + **Twilio**, conducting case-related dialogue with processing of and reaction to the emotional tone of responses.
- Crisis Recovery: Took over a project after the departing tech lead left a dozen developers without a coherent architecture; re-established ownership, recovered CI/CD for dev builds and unblocked store submission.
- Engineering Leadership: Managed and mentored a distributed team to delivery commitments; conducted performance reviews and acted as the bridge between the CEO and engineering.
- Multi-Platform Client: **Flutter** application giving clients cross-platform access to documents and case status.
- Code Quality: Enforced review standards and architectural direction across a **Golang** / **React** / **PostgreSQL** stack, including refactoring calls.
- Delivery & Process: Drove deliverables and timeline with the Scrum Master and Product Manager, removing blockers and introducing tooling for transparency and accountability.
- Large-Scale **RAG**: Built retrieval over complete case-document corpora for agent grounding.
- Team Audit & Restructuring: Brought in to audit the entire engineering organisation and set the path forward — identifying skill and talent gaps, then owning hiring, onboarding and role changes against them. *Technologies:* **Go**, **React**, **PostgreSQL**, **Retell**, **Twilio**, **Flutter**

W AI (Waltz) | ***DevOps / Infrastructure Consultant*** | ***Sep 2024 – Nov 2024*** | ***via Upwork***

- Scalability: Managed and scaled **cloud infrastructure** against fast-moving development and deployment cycles on a rapidly evolving platform.
- Implemented zero-downtime **CI/CD** pipelines for an automated ad-buying platform.
- Performance & Incident Response: Monitored system performance, identified and cleared infrastructure bottlenecks under load, and responded to failures to minimise downtime.
- Managed rapid deployment and scalability for an automated ad-buying platform.
- Implemented zero-downtime **CI/CD** pipelines and optimized infrastructure bottlenecks.
- Security & Documentation: Aligned infrastructure with current security standards and maintained the infrastructure documentation and status reporting the team worked from.
- Automation: Implemented **CI/CD** pipelines and automation tooling to streamline the development process. *Technologies:* **CI/CD**, **Cloud Infrastructure**, **DevOps Automation**

Openmart, Inc. | ***Senior Python / SRE / DevOps Developer*** | ***Aug 2024 – Aug 2024***

- SRE: Owned and optimised **AWS** infrastructure for high availability, managed **Kubernetes** clusters, and diagnosed and resolved production issues across **Kubernetes**, **Redis** and **PostgreSQL** instances.
- Backend Development: Led **Python** backend work on **FastAPI**/Django with a scalability and performance focus, managing asynchronous workloads through **Celery** and **RabbitMQ** over **Supabase**/Postgres.

- Data Access: Improved how business data was queried and used across the product. *Technologies:* **Python**, **FastAPI**, **Django**, **Celery**, **RabbitMQ**, **Supabase**, **PostgreSQL**, **Kubernetes**, **Redis**, **AWS**

EventCartel LLC | ***DevOps & Engineering Manager*** | ***Dec 2017 – Jun 2024*** | ***via Upwork***

- Hybrid Cloud Strategy: Federated on-premise Proxmox-based **Kubernetes** clusters with **AWS EKS** for optimized cost and high-availability disaster recovery.
- Infrastructure Overhaul: Led the high-stakes migration from Heroku to **AWS EKS** (**Kubernetes**), ensuring zero downtime and 10x scalability improvements.
- Platform Engineering: Built a high-availability ticketing platform handling spikes of up to several thousands of concurrent users using **AWS EKS**, **AWS EFS** shared persistent storage and **Redis** caching.
- Implemented robust GitOps pipelines with **ArgoCD** to manage massive **Kubernetes** clusters across multiple environments.
- CI/CD & GitOps: Standardized deployment pipelines across 15+ microservices using **GitLab CI** and **ArgoCD**, reducing deployment time from 1 hour to 5 minutes.
- Live-Event Streaming Platform (2020–2021): Built the media layer for paid online events during COVID on self-hosted Ant Media Server. Replaced an always-warm cluster with on-demand provisioning — an instance spawned and auto-configured ahead of each event, torn down afterwards — so capacity existed exactly when an event needed it and cost nothing between events. Built the WebSocket authorization layer enforcing one live connection per ticket, which eliminated credential sharing that had been inflating real concurrent load far past tickets sold, and made capacity predictable enough to size instances against ticket sales before doors opened.
- Maintained 99.99% system uptime through pro-active monitoring (**Prometheus**/Grafana) and incident response management.
- Ensured compliance with security standards through WAF implementation and fine-grained IAM controls.
- Lideré operaciones de **AWS**/Terraform IaC y **Kubernetes** (EKS/Proxmox). Integré cargas de trabajo con CI/CD de **GitLab** e implementé controles de seguridad con WAF e IAM.
- Led the transformation of infrastructure from monolithic Heroku deployments to fully managed **AWS EKS** clusters.
- Engineered a transformation from monolithic Heroku to fully managed multi-region **AWS** EKS.
- Platform Leadership: Managed a cross-functional team of developers and SREs for a high-traffic Ticketing & E-commerce platform. *Technologies:* **AWS EKS**, **Kubernetes**, **Terraform**, **ArgoCD**, **GitLab CI**, **Stripe Connect**, **Django**, **React**, **Redis**, **AWS EFS**, **Proxmox VE**, **Ant Media Server**

Agentsmith | ***DevOps & AI Engineer*** | ***Jul 2023 – Feb 2024***

- AI Ops Tools: Containerized AI services with **Docker**, fine-tuned NLP models on domain-specific data, and orchestrated the frontend integration via Flowise.
- LLM Infrastructure: Developed and deployed a robust AI pipeline integrating **Hugging Face** models, **LangChain** (with **LangGraph** for stateful agent graphs and **CrewAI** for role-based crews), **OpenAI**, and **Anthropic** for an enterprise chatbot framework.
- LLM Infrastructure: Developed and deployed a robust AI pipeline integrating **Hugging Face** models, **LangChain**, **OpenAI**, and **Anthropic** for an enterprise chatbot framework. *Technologies:* **Docker**, **LangChain**, **LangGraph**, **CrewAI**, **Hugging Face**, **OpenAI**, **Anthropic**, **Flowise**

TokensFarm / DcentraLab / 2key Network | ***Senior Backend & Blockchain Engineer*** |
Oct 2020 – Nov 2023 | ***Israel & Serbia, Remote / Remote*** | ***via Upwork***

- Led cloud infrastructure and Web3 engineering for DcentraLab's flagship platforms: TokensFarm (**DeFi** staking & yield farming) and 2key Network.
- Maintained **AWS EKS** clusters with GitOps workflows (**ArgoCD**, **Terraform**) ensuring 99.99% uptime during peak crypto network volatility.
- Zero-Downtime **AWS** to EKS Migration: Orchestrated migration of high-traffic monolithic app to **k8s** with 40% cost reduction.
- Reliability: Implemented real-time blockchain event indexing and monitoring/alerting systems using **Prometheus** and Grafana.
- Orchestrated complex **AWS** infrastructure using CloudFormation and Kinesis.
- Web3 Depth: Solved **web3.py** limitations, per-provider RPC behaviour differences, pending-nonce handling for slow-network detection, and gas-peak handling. Integrated Coingecko, 1inch, DexGuru; listed the project on DefiLlama; migrated file storage from shared to dedicated **IPFS**; hosted own **TheGraph** instances and hardened RPC nodes.
- **DeFi** Infrastructure: Developed secure backend services for a TVL $50M+ **DeFi** farming protocol; wrote the TokensFarm backend on **Serverless Framework** from project inception through every subsequent migration.
- Architected multi-chain smart contracts (**Ethereum**, **Polygon**, BSC) and high-throughput backend indexing systems.
- High-Performance Container Isolation: Secure execution environment for AI agents with 40% reduced cold-start times.
- Optimized smart contract interaction layers, reducing gas costs and improving transaction throughput.
- Managed DevOps for high-volume **DeFi** staking protocols and orchestrated complex **AWS** infrastructure.
- Gestioné DevOps para productos DeFi. Construí aplicaciones blockchain utilizando **web3.py** e implementé seguridad y cumplimiento en DApps. *Technologies:* **Ethereum**, **Polygon**, **web3.py**, **Serverless Framework**, **AWS EKS**, **ArgoCD**, **Terraform**, **IPFS**, **TheGraph**, **Prometheus**, **Grafana**

Froala (an Idera Corp company) | ***Integration Engineer / Associate Product Manager*** |
Jun 2019 – Apr 2020

- Technical Planning: Authored deep-dive technical documentation for performance benchmarking and framework compatibility architectures for the world-renowned Froala WYSIWYG editor.
- Technical Planning: Authored deep-dive technical documentation for performance benchmarking and framework compatibility architectures.
- Integration Testing: Executed complex integration test cycles and Level 3 bug investigations across web-based **React**/Angular/Ember rich-text components.
- Integration Ecosystem: Managed SDK releases for **React**, **Angular**, **Vue**, and Ruby on Rails.
- Technical Planning: Authored deep-dive technical documentation used for technical analysis and budget/timeframe bidding by invited development teams; supported the full release cycle. *Technologies:* **React**, **Angular**, **Vue**, **Ruby on Rails**, **JavaScript SDK**

TalkingCircles | ***Lead Full-stack Developer*** | ***May 2018 – May 2019***

- System Migration: Successfully migrated the entire platform infrastructure from **AWS** Elastic Beanstalk to **Google Cloud (GKE)** utilizing Kubernetes.

- Enterprise Platforms: Engineered the core architecture for internal social networking platforms utilized by major hospitality clients including Hilton and Marriott, leveraging **Neo4j** for complex social graph mapping.
- Database Transformation: Successfully designed and executed the migration of the complex **Django**/AngularJS application from **PostgreSQL** to a highly interconnected **Neo4J** graph database.
- Feature Engineering: Developed a real-time internal messaging chat system and integrated deep CRM analytics with GoSquared and Intercom.
- Backend/Frontend Expansion: Scaled the stack to support rapid user growth. *Technologies:* **Neo4j**, **Google Cloud (GKE)**, **Kubernetes**, **Django**, **AngularJS**, **PostgreSQL**

Edgy Labs, LLC | ***DevOps / Backend Developer*** | ***Dec 2017 – May 2018***

- Serverless First: Built a high-performance backend for a desktop application suite using **AWS Lambda**, Cognito, and API Gateway.
- Serverless First: Architected and developed a high-performance backend system supporting a cross-platform **Electron** desktop application suite.
- Tech Stack: Leveraged **AWS Lambda**, **API Gateway**, **Amazon Cognito**, **Auth0**, and the **Serverless Framework** to deliver a fully managed API layer.
- Search Optimization: Integrated **Elasticsearch** alongside **Amazon S3** and EC2 for near real-time social data analytics. *Technologies:* **AWS Lambda**, **API Gateway**, **Amazon Cognito**, **Auth0**, **Serverless Framework**, **Elasticsearch**, **Electron**, **Amazon S3**

Newport Capital LLC | ***Full-Stack Node.js Developer*** | ***Nov 2017 – May 2018*** | ***via Upwork***

- Crypto Cloud-Mining Platform: Engineered a full-stack **Node.js** cryptocurrency cloud-mining application across 74+ hours (5.0/5). *Technologies:* **Node.js**, **JavaScript**, **Web3**, **Cloud Mining**

Floyd D | ***Blockchain & Hyperledger Engineer*** | ***Aug 2017 – Dec 2017*** | ***via Upwork***

- Distributed Ledgers: Built **Ethereum smart contracts** and **Hyperledger Sawtooth** Lake distributed ledger networks and production demos. *Technologies:* **Ethereum**, **Hyperledger Sawtooth**, **Smart Contracts**, **Distributed Systems**

Elevate 360 | ***Senior JavaScript / Frontend Blockchain Developer*** | ***Aug 2017 – Nov 2017*** | ***via Upwork***

- Blockchain Frontend Architecture: Engineered **Ethereum** DApp and blockchain-platform frontends across 180+ hours (5.0/5). *Technologies:* **JavaScript**, **Ethereum**, **Web3**, **DApp Frontend**

Kaizen | ***Blockchain & Smart-Contract Developer*** | ***Jun 2017 – Sep 2017*** | ***via Upwork***

- Smart-Contract & **DeFi** Tooling: Delivered 350+ hours of **Ethereum** smart-contract, ICO/DeFi tooling, and decentralized application architecture (5.0/5). *Technologies:* **Ethereum**, **Solidity**, **DeFi**, **Smart Contracts**

Upstock | ***Senior Full-Stack Developer*** | ***Mar 2017 – Jun 2017*** | ***via Upwork***

- Startup Platform Engineering: Delivered 405+ hours as Senior Developer building and scaling a **CodeIgniter**/PHP startup platform (5.0/5). *Technologies:* **PHP**, **CodeIgniter**, **MySQL**, **JavaScript**

Lotus Interworks Inc. | *AWS Lambda & Serverless Application Developer* | *Jul 2016 – Mar 2017* | *via Upwork*

- Serverless Architecture: **AWS Lambda** application development (71+ h, 5.0/5); contributed upstream to the **Serverless Framework** authentication module (serverless/examples#245). *Technologies:* **AWS Lambda**, **Serverless Framework**, **Node.js**, **Cloud**

Qbix Inc. | *JavaScript & Node.js Platform Engineer* | *Sep 2015 – Mar 2017* | *via Upwork*

- Platform Engineering: 735+ hours as **JavaScript**/Node.js engineer on the Qbix social platform, including **Authorize.net** and **Stripe** financial modules and complex embedded UI (scrollable Bootstrap modals, iframe-targeted flows, **Angular** and mixed JS libraries). *Technologies:* **Node.js**, **JavaScript**, **Stripe**, **Authorize.net**, **AngularJS**

Romantic Robot LTD | *Senior LAMP-Stack Developer* | *Oct 2016 – Jan 2017* | *via Upwork*

- Full-Stack Web Systems: Delivered 434+ hours of production LAMP-stack backend and web platform engineering (5.0/5). *Technologies:* **Linux**, **Apache**, **MySQL**, **PHP**

Digital Kickstart | *Senior Node.js & Real-Time Media Engineer* | *Aug 2016 – Oct 2016* | *via Upwork*

- Real-Time Media Pipeline: Built the full audio/video path for Digital Kickstart's webinar product — stream client → media server → stream player, plus Facebook Live and **YouTube Live API** integrations (402+ h, 5.0/5). *Technologies:* **Node.js**, **AngularJS**, **WebRTC**, **Facebook Live API**, **YouTube Live API**

Appinux | *WebRTC & AngularJS Single-Page Application Engineer* | *Jan 2016 – Feb 2016* | *via Upwork*

- Real-Time Communications: Engineered **WebRTC** audio/video and screen sharing in an **AngularJS** and **socket.io**/Node.js single-page application (71+ h, 5.0/5). *Technologies:* **WebRTC**, **AngularJS**, **Socket.io**, **Node.js**

Henrique Souza | *Linux & CalDAV Systems Administrator* | *Nov 2014 – Feb 2015* | *via Upwork*

- Mail & Calendar Infrastructure: **CalDAV** server installation, mail-stack integration, and **Linux VPS** administration. *Technologies:* **CalDAV**, **Linux VPS**, **Mail Stack**, **Plesk**

PME Solution | *Parallels Business Automation Consultant* | *Oct 2014 – Feb 2015* | *via Upwork*

- Provisioning Platforms: Installation, configuration, and recovery of Parallels Business Automation Standard (**PBAS**) and **Plesk** control-plane deployments. *Technologies:* **PBAS**, **Parallels Plesk**, **Linux**, **Hosting Automation**

Hostupp (Chris Otieno) | *Plesk PBAS & Server Maintenance Consultant* | *Apr 2014 – Feb 2015* | *via Upwork*

- Hosting Control Planes: **Plesk PBAS** configuration, hosting automation, and ongoing **Linux** server estate maintenance. *Technologies:* **Plesk**, **PBAS**, **Linux**, **Server Maintenance**

Ambitechstrous | *Git & Infrastructure Automation Engineer* | *Nov 2013 – Feb 2015* | *via Upwork*

- Deployment & **Git** Automation: Built automated **Git** repository workflows and server deployment tooling across 138+ hours (5.0/5). *Technologies:* **Git**, **PHP**, **Bash**, **CI/CD Automation**

Agency Entertainment & Marketing S.L | *Cloud Server & Django Deployment Consultant* | *May 2013 – Feb 2015* | *via Upwork*

- Managed Hosting & **Python**: Deployed and configured **Django** applications onto **cPanel**/Cloud Linux hosting infrastructure. *Technologies:* **Django**, **Python**, **cPanel**, **Linux Cloud**

Ark.com | *Full-stack Software Engineer* | *Dec 2013 – Jul 2014* | *San Francisco / Remote*

- Browser Automation & CI/CD: Built a suite of automation tools as Chrome, Safari, and Firefox extensions, orchestrated by advanced **Jenkins** and **Chef** deployment pipelines.
- Real-time Storage: Architected the data layer using **Redis** and **Elasticsearch** (**Logstash**) for sub-second retrieval of complex user social graphs.
- Social Data Ingestion: Developed high-concurrency **Node.js** (**Express**) crawlers and social API integrators, utilizing asynchronous processing and Lodash. *Technologies:* **Node.js**, **Express**, **Redis**, **Elasticsearch**, **Logstash**, **Jenkins**, **Chef**

WOWITO LTD | *Linux Server Administrator* | *Dec 2012 – Mar 2013* | *via Upwork*

- Server Administration: **Linux** VPS and **Plesk**/cPanel hosting estate administration and production troubleshooting. *Technologies:* **Linux**, **Plesk**, **cPanel**, **VPS Administration**

EARLIER EMPLOYMENT

Salaried, in-house roles. These overlap the consultancy above: Webomage was founded in 2006 while these roles were still held.

Beget | *Software and Support Engineer* | *May 2012 – May 2013* | *Saint Petersburg, RU*

- **Network Infrastructure**: Key contributor in the company's transformation to an LIR (Local Internet Registry), managing large IPv4 pools during a major datacenter migration.
- Security Automation: Developed advanced detection services for identifying specific CMS footprints and malicious JScript usage across hosted webpages.
- **Network Infrastructure**: Participated in the company's transformation to an LIR (Local Internet Registry) to manage large IPv4 pools.
- Service Automation: Developed detection services for CMS and script-specific usage on web pages to prevent security exploits. *Technologies:* **Linux**, **IPv4 / LIR**, **Network Infrastructure**, **JavaScript**

Yota | *Remote Support Engineer (VOIP)* | *May 2011 – May 2012* | *Saint Petersburg, RU*

- High-Pressure Diagnostics: Provided remote technical administration and troubleshooting for 4G high-speed wireless network devices and VOIP-integrated services across corporate clients — the origin of my real-time connectivity troubleshooting practice.
- Technical Diagnostics: Provided remote technical administration for 4G network devices and VOIP-integrated services under high pressure. *Technologies:* **4G Wireless**, **VoIP**, **Network Diagnostics**

Veeam Software | *QA Engineer & Developer* | *Nov 2009 – Mar 2011*

- Virtualization & Database: Architected advanced **VMware vSphere** / **ESX** topologies backed by **NFS** and **iSCSI** shared storage, while handling rigorous system testing against clustered **Oracle** databases.

- Enterprise UNIX Infrastructure: Engineered performance load testing and debugging environments across complex UNIX (HPUX & Solaris) and **RedHat Linux** enterprise systems; ported the nworks SPI product to Linux for HP OML 9.1 and drove HP certification testing.
- Enterprise UNIX Infrastructure: Engineered performance load testing and debugging environments across complex UNIX (HPUX & Solaris) and **RedHat Linux** enterprise systems.
- Automation Tools: Wrote suite of testing utilities in **Java** and **Bash** to simulate high-load virtualization environments.
- Engineering: Fixed defects and implemented features in sh, **Java** SE, ECMAScript and HP SPI; built test utilities, environments and documentation; ran stress testing to locate bottlenecks. *Technologies:* **VMware vSphere**, **ESX**, **NFS**, **iSCSI**, **Oracle**, **RedHat Linux**, **Java**, **Bash**

Hosting Concepts BV | ***Systems & Software Engineer*** | ***Feb 2008 – Sep 2009*** | ***Netherlands / Remote***

- Virtual Infrastructure: Managed maintenance and troubleshooting for massive **Virtuozzo** VPS clusters and HSPc-PBAS billing systems. Designed architectures for distributed virtual web hosting networks over **NFS** and **iSCSI** shared storage.
- Enterprise Backups & Monitoring: Engineered an enterprise-wide backup system managing over 2TB of nightly deltas. Implemented flexible monitoring using **Zabbix** and Nagios.
- Virtual Infrastructure: Managed maintenance and troubleshooting for massive **Virtuozzo** VPS clusters and HSPc billing systems.
- Full-stack Portals: Created internal management and automation tools using **PHP**, **MySQL**, and **Drupal** CMF, driven by **Bash** and AWK scripts.
- Backup Architecture: Engineered an enterprise-wide backup system managing over 2TB of nightly deltas.
- Full-stack Admin Tools: Created internal management portals using **PHP**/MySQL (**Drupal** CMF). *Technologies:* **Virtuozzo**, **PBAS**, **PHP**, **MySQL**, **Drupal**, **Zabbix**, **Nagios**, **NFS**, **iSCSI**, **Bash**

NIR-Telecom | ***Software Engineer*** | ***Oct 2006 – Feb 2008*** | ***Novosibirsk, RU***

- Network Operations: Managed and maintained technical infrastructure for the ISP's regional network, supporting internal teams and business-critical services.
- **ERP** Development: Built an internal inventory accounting and document workflow system utilizing **Lotus Notes Domino** for a regional ISP and telecom provider. *Technologies:* **Lotus Notes Domino**, **ERP**, **ISP Network Operations**

SWsoft / Parallels (Plesk) | ***Technical Support Engineer*** | ***Nov 2004 – Apr 2006*** | ***Novosibirsk, RU***

- Enterprise Hosting Infrastructure: Provided elite Level-3 technical support directly at SWsoft / Parallels (the creators of **Plesk** and **Virtuozzo**).
- Major Client Triage: Acted as the primary global escalation point resolving critical infrastructure and service failures (HTTP, FTP, DNS, Mail) for tier-1 web hosting providers including GoDaddy and 1&1.
- Certifications: Achieved Microsoft Certified Professional (**MCP**) / MS Admin certification – exam 70-270, 2005 – during this tenure.
- Team Leadership: Trained new support engineers and coordinated a 3-person support shift. *Technologies:* **Parallels Plesk**, **Virtuozzo**, **Linux**, **Microsoft MCP**

PROFESSIONAL ACCREDITATIONS & CREDENTIALS

- **Australian Computer Society (ACS)**: Formally assessed and accredited under ANZSCO Code 261313 (Software Engineer).
- **IELTS English Language Proficiency**: Verified Academic / General proficiency.
- **Upwork Top Rated Plus**: Verified Top Rated Plus status with a 100% Job Success Score.

OPEN-SOURCE CONTRIBUTIONS & CODE PROOFS

- **Serena / SolidLSP MCP Agent Upstream Contributor:** Authored and merged upstream language server architecture adding **Astro** (.astro) AST symbol resolution and **TypeScript** frontmatter/template analysis to **SolidLSP** and Serena **MCP** Agent (Merged PR #2085, fork). — *Stack:* **Python**, **TypeScript**, **Astro**, **SolidLSP**, **MCP**
- **OpenAI tart-guest-agent Virtualization Contributor:** Authored upstream feature pull request adding multi-format image clipboard synchronization, **SPICE** file transfer daemon, and cross-platform **ARM64**/x86_64 build support (OpenAI PR #62, fork). — *Stack:* **Swift**, **Go**, **macOS Virtualization**, **SPICE**, **ARM64**
- **Headroom Upstream Contributor:** fix(proxy): preserve Claude Code auto-mode protocol across upstream compaction (Merged PR #3784, fork).
- **WebTorrent Desktop Upstream Contributor:** feat(apple-silicon): native arm64 build target without Rosetta translation (PR #2529, fork).
- **Virtual FIDO2 / WebAuthn Security Key in Go:** Contributed to virtual **FIDO2**/U2F token emulation in **Go** (PR #48, fork), implementing **CTAP2** resident key management, COSE packed attestations, and macOS/Linux **UHID**/VHID driver support. — *Stack:* **Go**, **FIDO2 / WebAuthn**, **CTAP2**, **UHID**
- **Serverless Framework Upstream Contributor:** Authored pull request for official authentication architecture (Serverless PR #245, serverless-auth). — *Stack:* **Node.js**, **AWS Lambda**, **Serverless Framework**, **OAuth**
- **IcedCoffeeScript & Async Runtime Systems:** Early compiler and asynchronous runtime tooling contributions for **CoffeeScript**/IcedCoffeeScript async/await flow-control execution (toffee-script, image-batch-resizer). — *Stack:* **CoffeeScript**, **Node.js**, **Async Runtime**
- **AWS Lambda Async Trigger Architecture:** Public architectural reference implementation for async Lambda event mapping (Gist 418ef0aba71964d250c555df8d6719a9). — *Stack:* **AWS Lambda**, **Event-Driven**, **Node.js**
- **Ansible & Infrastructure Playbooks:** Public infrastructure-as-code automation repositories for containerized chat and microservice platforms (lets-chat-ansible-playbook, kubernetes-ansible, rippled-ansible-role). — *Stack:* **Ansible**, **Kubernetes**, **Docker**, **Linux**

EDUCATION & CERTIFICATIONS

- **Microsoft Certified Professional (MCP)** — Microsoft (2005)
- **North-Western State Correspondence Technical University** (1998–2003) — St Petersburg, Russia
  - Software Engineer
- **Lyceum of Information Technologies** (1993–1998) — Novosibirsk, Russia
  - Junior Programmer, Information Technologies