

# Alex Ishenko

Principal Full-Stack Engineer

## Contact

**Address:** EU, Austria, Vienna, 1140, Lützowgasse 6

**LinkedIn:** [linkedin.com/in/aishenko](https://linkedin.com/in/aishenko)

**GitHub:** [github.com/qialex](https://github.com/qialex)

## About

### Executive Summary

**Principal Full-Stack Engineer & Certified SAFe Agile practitioner** with **20 years of experience**. Expert in the full technical lifecycle: **React/Next.js/Svelte frontends, scalable Node.js backends, and AWS CDK infrastructure**.

### Core Philosophy

**"Invisible Infrastructure"** – I build systems so reliable that product teams can ship 10x faster without operational friction. I love continuity on the Individual Contributor track, solving the complex architectural bottlenecks that typically stall high-growth startups.

### Career Focus

**Force Multiplier** – I bring a "Founders Mindset" to engineering. I lead through architecture, high-signal hiring, and technical mentorship, utilizing SAFe Agile to keep systems predictable and scalable as the organization grows.

## Experience

### Layer Finance

Oct 2024 — Present (1 yr 4 mos)

#### Founding Software Engineer | Vienna

- End-to-End Architecture:** Solely responsible for the full-stack technical delivery of a secure fintech platform, bridging React/Next.js interfaces with a high-throughput Node.js service layer.
- Production-Grade Infrastructure:** Architected the entire AWS foundation using TypeScript CDK, implementing VPC isolation, automated CI/CD, and security guardrails for 1-click deployments.
- Real-Time Financial Engine:** Engineered a high-performance Node.js backend optimized for reactive financial data streams, ensuring data integrity and sub-second UI updates.
- Security & Compliance:** Designed a "Secure by Design" framework (IAM, Encryption, Audit Logging) to meet rigorous fintech standards for sensitive financial transactions.
- AI Orchestration:** Integrated LLM-driven workflows into the Node.js ecosystem to automate data categorization and financial insights using modern AI agent patterns.

**Skills:** JavaScript, TypeScript, Next.js, AWS, Node.js, React.js, Python, Cybersecurity, Scalability, Agile, Technical Architecture, SaaS, AI Agents, LLM, Leadership

### atlas.design

Aug 2022 — Sep 2024 (2 years 2 months)

#### Staff Engineer (Platform & Full-Stack) | Vienna

- Delivering worldwide solutions:** Continuously increasing click-through rate and reducing hop off rate by measurable percentage through delivering new core features.
- High-Performance Web Apps:** Engineered greenfield, real-time AI web applications using TypeScript, React, and Next.js/Svelte. Optimized client-side state and browser rendering for heavy generative AI assets.

- **Hybrid Node.js & Python Architecture:** Designed a distributed microservices system where Node.js managed core logic and real-time state, while Python (FastAPI) handled high-intensity ML inference and auto-scaling GPU workloads.
- **Low-Latency Synchronization:** Developed high-throughput API protocols using WebSockets and gRPC to bridge the frontend with AI pipelines, achieving sub-second latency for real-time generative previews.
- **Infrastructure as Code (IaC):** Architected the complete AWS foundation using TypeScript CDK and built automated pipelines for seamless deployment of web services and high-performance GPU clusters.
- **Observability & Reliability:** Established a "Trusted Foundation" by implementing full-stack monitoring (Datadog/CloudWatch), reducing incident response time across the distributed microservices ecosystem.

**Skills:** JavaScript, TypeScript, Next.js, Node.js, AWS, Python, FastAPI, PyTorch, Agile

## Jumio Corporation

Sep 2019 — Jul 2022 (2 years 11 months)

### Staff Engineer (Web Platform & Performance) | Austria, On-site

- **Edge Computing & WebAssembly:** Engineered mission-critical identity verification modules using WebAssembly (Wasm) to port complex logic to the browser, reducing server-side processing costs by ~40% and lowering global latency.
- **React-Based SDK Architecture:** Owned the technical evolution of the core React-based Web SDK, ensuring a high-performance TypeScript environment capable of handling millions of concurrent identity checks.
- **Cross-Functional Node.js Consulting:** Acted as an internal consultant to product teams, resolving performance bottlenecks in Node.js event loops and React rendering pipelines and establishing company-wide frontend performance best practices.
- **Enterprise System Resilience:** Designed robust error-handling and fallback mechanisms for the verification flow, directly increasing conversion rates for high-stakes financial and healthcare enterprise clients.
- **Security & Data Privacy:** Partnered with compliance teams to ensure web-based data collection met global biometric and privacy standards (GDPR, SOC2, ISO), improving trust for enterprise customers.

**Achievements:** Implemented ML models in-browser (WebAssembly) to reduce backend load • Led cross-functional initiatives to improve frontend performance for enterprise customers

**Skills:** React.js, TypeScript, JavaScript, Node.js, AWS, Docker, Cypress, RxJS, NestJS, Python, WebAssembly, B2B, SaaS, Agile, Technical Leadership

## Deluxe Media

Apr 2017 — Sep 2019 (2 years 6 months)

### Lead Front end Developer | Remote (EU to US), Contractor

Replaced old Adobe flash-based app with a brand new translation service for world-famous movie companies (20th Century Fox, Warner Bros, etc.)

- **Technical Leadership:** Led frontend development team, providing technical guidance and contributing to strategic decision-making processes
- **Reverse engineering:** Successfully reproduced more than 50% of old Adobe flash-based application in just first 6 months under hard deadline
- **Intuitive interfaces:** Delivered functionality close to a video editor with GIT-like functions in a web app for non-technical users (translators) with very low 'how it works' question rate
- **Complex key integrations:** Integrated and automatically delivered movie trailers to 86 destinations, thousands of partners, websites, and social networks

**Achievements:** Founded and scaled a project from inception, leading a team of up to 10 members • Produced over 1200 lines of code per day on average within 2.5 years

**Skills:** JavaScript, TypeScript, Angular, Redux.js, RxJS, SASS, CSS, socket.io, Cypress, Jest, Webpack, Keycloak, PHP, MySQL, Redis, Docker, AWS, Agile

## Neotech

May 2013 — Apr 2017 (4 years 1 month)

### Senior Frontend Developer | Tallinn, Estonia, On-site

Worked for an online sportsbook (bookmaker) building interfaces for user account: KYC, payments, etc.

- **Core components:** Participated in creating set of common core components used by other departments

- **A/B testing development:** Participated in setting up pipeline for creating A/B testing tools for inner use to check metrics of deployed features
- **Apache Cordova mobile application:** Actively participated in developing from ground Apache Cordova mobile application

**Achievements:** Implemented many highly secured payment gateway integrations • Became a member of core team making globally affecting technical decisions improving user engagement, KYC and payments • Developed an app 100% following TDD principles

**Skills:** JavaScript, Backbone.js, React.js, CSS, socket.io, Java, Apache Tomcat, Apache Cordova, MySQL, MongoDB, Redis, A/B testing, TDD

## Prodvijenec

Oct 2007 — May 2013 (5 years 8 months)

### Founder | Rostov-on-Don, Russia, On-site

A Web-Studio building websites and apps for corporate clients

- **Web Development:** Building and maintaining high-quality websites and web applications to meet client needs
- **Search Engine Optimization (SEO):** Implementing strategies to improve website visibility and organic search rankings
- **Team Leadership:** Managing and developing a team of 20 web development professionals

**Achievements:** Founded and successfully scaled a web studio to 20 employees, generating profit during entire leadership until exit • Developed an automated SEO analytics and automation platform • Developed a sophisticated CRM for client relations • Had more than 200 clients at the same time

**Skills:** JavaScript, Node.js, Express.js, jQuery, HTML, CSS, MySQL, PHP, CMS, WordPress, Drupal, Joomla, SEO, Nginx, Apache, Git

## Certifications

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### SAFe® Agile Framework Practitioner

SAFe 5 Practitioner Cert Kit (5.0) | October 2021

Large Agile environments using Scrum, Kanban, XP and Agile Release Trains (ARTs)

## Languages

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**English:** C1

**German:** B1-B2

**Russian:** Native

## Work Eligibility

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**As an employee:** EU, Austria

**As a contractor:** Worldwide

**Preferences:** Remote

## Hobbies

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Traveling, Chess, Investing, Learning

## Education

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### South Russian Humanitarian Institute

Master of Arts in Psychology | 2003 — 2009

Graduated with Honors