

Aleksandr Ishchenko

Senior Full-Stack Engineer | TypeScript, React/Next.js, Node.js/NestJS, AWS, CI/CD, AI Pipelines

Contact

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Availability: Remote Worldwide

Professional Summary

Senior Full-Stack Engineer with 7+ years of experience — specializing in TypeScript, React/Next.js, Node.js/NestJS, REST APIs, and AWS CDK cloud infrastructure. Proven track record delivering system design, microservices architecture, and production AI pipelines at enterprise scale.

Core Philosophy

"Invisible Infrastructure" — I build systems so reliable that product teams ship faster without operational friction. I thrive on the Individual Contributor track, solving the complex architectural bottlenecks that stall high-growth companies.

Career Focus

Force Multiplier — I bring a Founders Mindset to engineering. I take full ownership of business-critical systems end-to-end — from TypeScript APIs and RAG pipelines to containerized AWS deployments — and lead through architecture, code review, and technical mentorship as organizations scale.

Professional Experience

Layer Finance

Oct 2024 — Present

Founding Full Stack Engineer | Vienna, Austria | Remote

- **End-to-End Ownership:** First engineering hire, solely responsible for full-stack delivery of a secure fintech platform — from architecture decisions to production, reporting directly to the CTO.
- **Full-Stack Product:** Built complete React/Next.js UI (admin panel, auth flows, dashboards, data visualizations, PDF viewer) with a type-safe tRPC/Prisma API layer and NestJS backend services.
- **Auth & Security:** Designed and implemented end-to-end authentication flows and a "Secure by Design" framework (IAM, Encryption, Audit Logging) to meet rigorous fintech compliance standards.

- **Production-Grade Infrastructure:** Architected a full AWS stack using TypeScript CDK — ECS Fargate + ECR for containerized Docker deployments, ALB for load balancing, RDS (PostgreSQL + pgvector), ElastiCache (Redis), S3, SQS, SES, SNS, Route 53, ACM, Secrets Manager, IAM, and CloudWatch — with automated CI/CD and VPC isolation for 1-click deployments.
- **Real-Time AI Financial Engine:** Engineered a high-throughput Node.js backend for reactive financial data streams — integrating an LLM-driven RAG pipeline with pgvector for document analysis and automated financial categorization, ensuring data integrity and sub-second UI updates.
- **Leadership:** Conducted hiring interviews, mentored team members, established Agile processes, and drove code review culture.

Skills: JavaScript, TypeScript, React, Next.js, Node.js, NestJS, tRPC, Prisma, PostgreSQL, pgvector, Redis, Docker, AWS CDK, ECS Fargate, ECR, ALB, RDS, ElastiCache, S3, SQS, SES, SNS, Route 53, ACM, Secrets Manager, IAM, CloudWatch, VPC, GitHub Actions, REST API, Microservices, Cloud Infrastructure, System Design, Jest, Cypress, Git, RAG, AI Agents, LLM, Cybersecurity, Technical Architecture, Agile, Scrum, Leadership

Novomatic

Aug 2022 — Sep 2024 (2 years 2 months)

Senior Full Stack Engineer | Gumpoldskirchen, Austria | Hybrid

- **AI Pioneer:** Championed Hugging Face API adoption in a conservative enterprise — presented to the executive board, secured approval, and participated in legal negotiations to ship the company's first AI-powered features.
- **Technical Leadership:** Bridged and aligned frontend and backend teams, architected the unification strategy across fragmented applications, mentored a 5-person team including the team lead, and established code review standards and Agile practices.
- **Backend Unification:** Architected and led consolidation of duplicate user management and authentication logic from multiple app-specific backends into a single shared NestJS/PostgreSQL API layer with Zod type-safe validation.
- **Frontend Modernization:** Built new React/Next.js applications for interdepartmental operations (ordering systems, dashboards, video-sharing) and refactored legacy Ruby on Rails and vanilla JS apps to modern architecture.
- **Design System:** Unified component library across 12 applications using Storybook, distributed via private npm registry — adopted by designers as daily documentation tool for non-technical stakeholders.

Skills: JavaScript, TypeScript, React, Node.js, Next.js, NestJS, Redis, PostgreSQL, Zod, Storybook, Docker, Dev Containers, GitHub Actions, REST API, Microservices, CI/CD, Jest, Cypress, Git, Scrum, Hugging Face, Ruby on Rails, Technical Leadership, Agile

Jumio Corporation

Sep 2019 — Jul 2022 (2 years 11 months)

Staff Frontend Engineer | Vienna, Austria | On-site

- **Scale & Ownership:** Owned the core KYC completion metric for an identity verification platform processing 1M+ daily verifications across travel, fintech, social, and government enterprise clients — built with Angular, RxJS, and Redux.
- **Adaptive Frontend Pipeline:** Engineered dynamic resource loading based on connection quality and device capabilities, improving verification completion rates through measurable A/B tested iterations replicated across iOS and Android teams.

- **Browser-Side ML:** Built real-time user guidance using PyTorch-trained models delivered via WebAssembly for browser-side inference (lighting, document positioning, corners) — reducing failed attempts and cutting server processing costs by ~40%.
- **Staff-Level Influence:** Aligned TypeScript/JS tech stack decisions across global engineering teams, evaluated and standardized new technologies via POCs and fractional deployments — serving as release master across teams, participating in release ceremonies, and owning hotfix vs rollback decisions.
- **Recognition:** Won internal hackathon among 200+ developers — leading to company-sponsored ML training. Holds Stanford/DeepLearning.AI Machine Learning Specialization and DeepLearning.AI Deep Learning Specialization (Andrew Ng).

Skills: JavaScript, TypeScript, Angular, Node.js, RxJS, Redux, WebAssembly, Webpack, Docker, CI/CD, PyTorch, Browser-Side ML, Deep Learning, A/B Testing, Jest, Cypress, Git, Scrum, SAFe Agile (Certified), Cross-Platform Collaboration, Release Management

Deluxe Media

Apr 2017 — Sep 2019 (2 years 6 months)

Frontend Team Lead | Burbank, CA, United States | Remote

- **Platform & Context:** Led frontend development for a secure AAA subtitle translation platform at Deluxe Media — Hollywood institution founded 1915, 10 Academy Awards, serving Warner Bros and major studios worldwide — maintaining daily collaboration across a 9-hour time difference for the full 2.5-year tenure.
- **Team Leadership:** Joined as the 3rd team member, grew and led a 10-person team — conducting frontend interviews independently, participating in backend hiring, and delivering 30%+ of a legacy Flash app reproduction in 6 months against a hard cancellation deadline.
- **Complex Web Editor:** Built a video editor combined with a Git-like translation workflow for AAA movie productions — featuring multi-translator approval, round-based review, and per-language change proposals for Warner Bros content.
- **Translator Marketplace:** Built end-to-end marketplace covering signup, automated skill-testing, contribution tracking, payment calculation, account management, and payment history.
- **Distribution & Security:** Built scheduling UI for simultaneous delivery to 86+ platforms worldwide (YouTube, Facebook, and movie-specific platforms); operated in a high-security environment with watermarked per-developer video IDs for leak tracing.

Skills: JavaScript, TypeScript, Angular, Webpack, RxJS, Node.js, Express.js, Redis, MySQL, AWS, Docker, CI/CD, Keycloak, Microservices, Jest, Cypress, Git, Agile, Scrum, Team Leadership, Remote Collaboration

Neotech

May 2013 — Apr 2017 (4 years)

Senior Frontend Developer | Tallinn, Estonia | On-site

- **Platform:** Built and maintained core frontend for a high-traffic international sportsbook — KYC flows, payment interfaces, and account management for a large global user base.
- **Engineering Culture:** Championed A/B testing and Agile adoption in a Waterfall-driven organisation; mentored junior developers, established code review standards, and contributed to a shared component library across product teams.
- **Mobile:** Developed Apache Cordova mobile application following TDD principles.

Skills: JavaScript, Angular, Node.js, Webpack, Docker, CI/CD, Redis, MySQL, MongoDB, Apache Cordova, Java, A/B Testing, TDD, Jest, Cypress, Git, Agile, Mentoring

Prodvijenec Web Studio

Oct 2007 — May 2013 (5 years 8 months)

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

- **Studio:** Founded and scaled a web development and SEO agency to 20 employees serving 200+ corporate clients — covered in local press, secured angel investment, and successfully exited via sale to employees (rebranded as Rocket Business, still operating today).
- **SEO Platform:** Built an automated SEO analytics platform — keyword tracking, link management, automated reporting, and pay-as-you-go billing — serving 200 solo SEO clients. Achieved #1 Google.ru ranking for "SEO" in Russia for multiple years.
- **Infrastructure & Products:** Managed full server infrastructure (Nginx, MySQL, PHP, WordPress) for 200+ client websites; developed Oversource.com, a B2B lead marketplace for trading qualified leads. Met prominent investors including Guy Kawasaki during Silicon Valley fundraising.

Skills: PHP, MySQL, Nginx, WordPress, SEO, B2B, Product Development, Team Leadership, Entrepreneurship

Certifications

SAFe® 5 Agile Framework Practitioner

Scaled Agile, Inc. | October 2021

Machine Learning & Deep Learning

Stanford/Coursera, DeepLearning.AI | 2023

Education

Master of Arts in Psychology (Graduated with Honors)

South Russian Humanitarian Institute | 2003 — 2009

Provides foundation in cognitive systems and user behavior

Work Authorization & Availability

EU/Austria: Eligible for direct employment

Worldwide: Available as contractor — incorporated in EU (B2B/C2C arrangements)

Proven Time Zone Flexibility: EU-based. 2.5 years working US Pacific business hours (Deluxe Media). Available 9am–5pm EST or 9am–3pm PST

Languages

English (C1), German (B1-B2), Russian (Native)

Notable Achievements

Arena FIDE Master (AFM) in Chess — International chess title awarded by FIDE (World Chess Federation)