

Aleksandr Ishchenko

Senior Full Stack Engineer | AI-Powered Interfaces | TypeScript · React.js · Next.js · tRPC · NestJS

Contact

Location: Lutzowgasse 6, 1140, Vienna, Austria | EU Work Authorization

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Availability: Remote Worldwide

Professional Summary

Senior Full Stack Engineer with **20 years of experience**, specializing in modern TypeScript applications with **React/Next.js frontends** and **Node.js backends using NestJS, tRPC, and Prisma**. Strong background bridging full-stack engineering and **AI/ML systems** — built production browser-side ML inference pipelines, AI-powered document processing workflows, and real-time AI-integrated interfaces at scale.

Proven track record of owning business-critical metrics end-to-end, evolving from frontend specialist to full-stack engineer, and thriving in cross-functional environments alongside research and engineering teams.

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

Technical Skills

Frontend: React.js · Next.js · TypeScript · JavaScript · Svelte · Angular · RxJS · Redux · Jotai · shadcn/ui · WebAssembly · WebSockets · HTML5 · CSS3/SASS

Backend: Node.js · NestJS · tRPC · Prisma · Zod

Data & AI: Browser-side ML inference · WebAssembly model delivery

Infrastructure: Docker · Dev Containers · GitHub Actions · CI/CD · GCP · AWS

Testing: Jest · Cypress · Storybook · TDD

Databases: PostgreSQL · MongoDB · Redis

Methodologies: Agile · SAFe · A/B Testing · Code Review · Technical Leadership · Mentoring

Professional Experience

Layer Finance

Oct 2024 — Present

Founding Full Stack Engineer | Vienna, Austria | Remote

First hire building a fintech platform from scratch, reporting directly to CTO. Full-stack development with Next.js, tRPC, Prisma, and AI integration.

- Built complete React/Next.js UI with shadcn/ui design system and Jotai state management: admin panel, authentication flows, dashboards, data visualizations, gallery, and PDF viewer with smooth navigation and

zoom

- Developed full-stack architecture with Next.js, tRPC, and Prisma for type-safe API layer and data management
- Implemented AI-driven document analysis and financial data categorization pipeline using Vercel AI SDK
- Contributed to infrastructure decisions (Docker, Kubernetes, GCP deployment architecture, Vercel, Railway)
- Participated in hiring interviews, code reviews, and mentoring team members
- Advocated for and established Agile processes within the engineering team

Novomatic

Aug 2022 — Sep 2024 (2 years 2 months)

Senior Full Stack Engineer (Co-Team Lead) | Gumpoldskirchen, Lower Austria, Austria | Hybrid

Brought in as a senior frontend developer to guide the team lead at Austria's largest gaming technology company (12,000 employees). Evolved scope to full-stack development across enterprise applications serving multiple departments.

- Drove backend unification initiative: contributed to consolidating duplicate functionality (user management, authentication) from multiple app-specific backends into a unified NestJS + PostgreSQL backend with shared APIs, implementing Zod schemas for type-safe validation and eliminating data inconsistencies
- Drove creation of brand new React/Next.js applications for interdepartmental operations (ordering systems, employee-facing dashboards, video-sharing platform)
- Refactored legacy applications (Ruby on Rails, vanilla JavaScript) to modern React architecture
- Unified component library and design system using Storybook across 12 applications, distributed via private npm registry; deployed Storybook for designers as documentation tool enabling non-technical stakeholders to access component specifications in daily work
- Pioneered AI adoption using Hugging Face APIs in a conservative enterprise: presented to the executive board, secured approval, participated in legal negotiations
- Established developer infrastructure: coordinated CI/CD implementation with on-premises team (no cloud deployment due to conservative board policies) and set up development containers for consistent environment
- Mentored a 5-person team, including the team lead, establishing code review standards, modern development practices, and Agile methodologies

Jumio Corporation

Sep 2019 — Jul 2022 (2 years 11 months)

Senior Frontend Engineer | Vienna, Austria | On-site

Owned the core KYC completion metric for an identity verification platform, processing peak loads exceeding 1 million daily verifications for enterprise clients in the travel, fintech, social, and government sectors.

Frontend Platform:

- Engineered an adaptive frontend pipeline dynamically loading resources based on connection quality and device capabilities, improving completion rates from ~80% toward the target
- Built a real-time user guidance system using browser-side ML model integration (lighting, document positioning, corners, fingers) — reducing failed verification attempts
- Implemented WebAssembly-based ML model delivery, enabling browser-side inference, reducing server processing costs by ~40%
- Proved improvements via A/B testing, then collaborated with iOS/Android teams to replicate solutions cross-platform

Cross-Team Contributions:

- Participated in staff-level core team, aligning tech stack across engineering teams, preventing conflicting implementations
- Evaluated new technologies: built POCs, ran fractional deployments, measured metrics, wrote documentation
- Served as release master across teams: monitored errors, assessed backward compatibility, made hotfix vs rollback decisions

Recognition:

- Won internal hackathon among 200+ developers

Deluxe Media

Apr 2017 — Sep 2019 (2 years 6 months)

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

Led frontend development for secure AAA subtitle translation platform at Deluxe Media — a Hollywood institution founded in 1915, recipient of 10 Academy Awards, serving Warner Bros and major studios worldwide.

Team Leadership:

- Held official Team Lead title, advocating for the full team (frontend + backend). Joined as the 3rd member of a newly formed team, grew to lead a 10-person team.
- Interviewed all frontend engineers independently; participated in backend hiring for culture fit and soft skills alongside technical leads
- Managed delivery against hard deadlines — reproduced 30%+ of a legacy Flash application within 6 months or face project cancellation
- Maintained daily collaboration with California-based management and team members across a 9-hour time difference for the entire 2.5-year tenure

Frontend (Primary Focus):

- Built a complex web interface combining a video editor and a Git-like workflow for professional translators working on AAA movie productions, primarily Warner Bros
- Implemented multi-translator approval system: 3 independent translations per video, round-based review, comment, and propose changes between translators in the same language
- Built a complete translator marketplace: signup, automated skill-testing, contribution tracking, payment calculation, account, and payment history
- Integrated Keycloak authentication and AWS storage connection into the Deluxe ecosystem for access to the production pipeline

Distribution:

- Built distribution management UI enabling scheduling and simultaneous delivery to 86+ platforms (YouTube, Facebook, and movie-specific platforms worldwide)

Security:

- Worked within a highly secure environment with watermarked low-quality preview videos carrying per-developer IDs for leak tracing — no developer access to production-quality content

Neotech

May 2013 — Apr 2017 (4 years)

Senior Frontend Developer | Tallinn, Estonia | On-site

Built frontend interfaces for a high-traffic online sportsbook platform — user account management, KYC flows, and payment UI for a large international user base.

- Built and maintained core frontend components for the user account area: KYC flows, payment interfaces, and account management
- Participated in company-wide A/B testing culture — analysed metrics, proposed and implemented frontend improvements, deployed incrementally to wider audiences based on results
- Pioneered Agile methodologies in a Waterfall-driven organisation, advocating for iterative delivery and faster feedback cycles
- Mentored junior frontend developers and conducted code reviews, establishing team coding standards
- Contributed to the shared component library used across multiple product teams
- Developed Apache Cordova mobile application following TDD principles
- Occasionally contributed minor improvements to Java payment APIs during downtime

Prodvijenec Web Studio

Oct 2007 — May 2013 (5 years 8 months)

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

Founded and scaled a web development and SEO business. Covered in local press; sold the studio in 2013 — rebranded as Rocket Business, still operating today.

- Grew studio to 20 employees serving 200+ corporate clients simultaneously, including large post-Soviet industrial facilities new to digital
- Built and maintained full server infrastructure using WordPress, Nginx, MySQL, and PHP, serving 200+ client websites simultaneously
- Built an automated SEO analytics platform: keyword tracking, reference link management, automated weekly reporting, pay-as-you-go billing, and a client account system — serving 200 solo SEO clients
- Achieved #1 Google.ru ranking for "SEO" keyword in Russia for multiple years
- Successfully exited — sold to former employees, rebranded as Rocket Business, still operating today (est. 2007)
- Secured angel investment; traveled to Silicon Valley seeking US funding, meeting prominent investors, including Guy Kawasaki
- Developed oversource.com — a B2B lead marketplace enabling salespeople to trade qualified leads

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

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)