

Suleyman Musayev

Startup-Ready Backend Engineer · Generalist · Owner · Builder

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· Remote · UTC+5

SUMMARY

Generalist, owner, builder. Went from zero Ruby in January 2020 to shipping production code in six months, and from there to architecting security-critical systems end-to-end. Comfortable wearing every hat — backend, security, ops, incident response, product. Cross-domain background in quantitative trading where I built hedging strategies that cut costs 35%. I love early-stage chaos and the kind of problems where the right answer is "just go figure it out and ship it." Open to founding/early-engineer, generalist backend, and contract roles.

EXPERIENCE

Software Engineer (Sole Architect, Auth Platform) · [SSL.com](#)

Aug 2023 — Present

Remote · top-10 global PKI vendor

- **End-to-end ownership** of the company-wide authentication and identity platform: architecture, implementation, security, scaling, incident response. Sole engineer on the system supporting tens of thousands of daily users.
- Enabled **10x growth** in TLS, code signing, and identity certificate issuance through pipeline automation and architectural redesign.
- Implemented OAuth 2.0, OIDC, SAML, and session-based authentication with secure cross-domain flows and external IdP integrations.
- Designed fraud detection combining third-party services with custom analytics — behavioral patterns, IP intelligence, device fingerprinting. Cut SMS pumping fraud loss to zero.
- Defended against advanced and state-level threat actors; built protections against account takeover, replay attacks, session hijacking, credential leaks, and privileged misuse.
- Defined the architecture for a distributed system of authentication services, API servers, web applications, and audit-logging pipelines.

Software Engineer · [Midstay](#)

Aug 2022 — Jan 2024

Remote · early engineer on a 5-person team, ~1k DAU consumer product

- Wore every hat: backend, frontend, performance, incident response, code review. Shipped **4 major product features in 12 months** while supporting multiple pivots.
- Reduced backend latency by up to **5x** and improved user retention by **15%**.
- Identified and mitigated critical security vulnerabilities; led incident response against advanced attackers and implemented safeguards to prevent recurrence.
- Final 5 months were a contract wind-down with gradual transition of responsibilities to the rest of the team while ramping up at SSL.com.

Quantitative Trading Operations · Private Trading Firm

Mar 2020 — May 2021

Built and managed automated hedging strategies across brokers, markets, and instruments

- Built strategies and tooling that **reduced hedging costs by up to 35%**.
- Managed a large leveraged portfolio with rigorous risk control and capital efficiency.
- Self-taught Ruby in parallel; transitioned to full-time engineering by mid-2022.

SKILLS

LANGUAGES	Ruby, JavaScript, Python, SQL, C, C++
BACKEND	Ruby on Rails (4–8), REST APIs, Sinatra, Sidekiq, background processing
FRONTEND	HTML5, CSS3, Tailwind, Stimulus, Hotwire, Turbo
DATA	PostgreSQL, Redis, query optimization, indexing
AUTH & SECURITY	OAuth 2.0, OIDC, SAML, JWT, PKI, fraud detection, incident response, threat modeling
INFRASTRUCTURE	Docker, Linux, Nginx, AWS, GitHub Actions, CI/CD, monitoring
CROSS-DOMAIN	Quantitative finance, risk modeling, hedging strategy

OPEN SOURCE

omniauth_oidc, ip_geo_lookup, balloon_hashing, yescrypt

Maintained Ruby gems spanning OIDC authentication, IP geolocation for fraud detection, and memory-hard password hashing. Contributor to Authlogic and openmpic.

Writing

Practical security and engineering write-ups on Medium covering SMS fraud defense and OIDC implementation in Rails.

LANGUAGES & CERTIFICATIONS

Languages: English (Professional) · Russian (Native) · Turkmen (Native) · Turkish (Conversational)

Certifications: Bloomberg Market Concepts (BMC)