

Vitaliy Isikov

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Senior Software Engineer, AI/ML Systems

Senior software engineer with 19 years building complex software systems across fintech, cloud, and commerce. Currently building a local AI execution runtime for multi-agent autonomous systems, with deep hands-on experience in agent orchestration, tool-use architectures, LLM provider integration, and long-running coordinator services. Strong foundation in Rust, TypeScript, and React, with a track record of shipping production systems that combine high performance with measurable business impact.

SKILLS

AI / LLM: Multi-Agent Orchestration, Autonomous Agent Runtimes, Prompt Engineering, Tool-Use Architectures, Model Routing, RAG, MCP

Languages & Frameworks: Rust, TypeScript, Python, Node.js, React, Next.js

Data & Persistence: PostgreSQL, SurrealDB, RocksDB, Real-Time Data Pipelines

Infrastructure: Docker, AWS, GitHub Actions, CI/CD, Cross-Platform Packaging, Microservices

EXPERIENCE

blprnt Aug 2025 – Present

Founder / Lead Engineer Local AI execution runtime for zero-human companies

- Building a self-hosted orchestration platform for teams of autonomous LLM agents, with a Rust HTTP API backend, React/TypeScript SPA, and an issue-based work system modeled on real org structures
- Architected a Rust coordinator service that schedules agent runs via manual triggers, heartbeat timers, issue assignment, and @mention handoffs between agents
- Structured a modular Cargo workspace (api, coordinator, persistence, tools) with local RocksDB-backed SurrealDB for durable state across employees, issues, and runs
- Integrated multiple LLM providers with structured tool schemas, streaming, and per-agent model/parameter configuration to balance cost, latency, and quality
- Packaged as a single-command install (`npv blprntai`) with native binaries for 3 platforms (macOS ARM64, Linux x64, Windows x64), GitHub Actions CI/CD, and parameterized Docker Compose deploys

The Fitting Room Sep 2023 – Nov 2025

Senior Software Engineer Equity-based early-stage startup role

- Owned end-to-end delivery of a user-facing React Native application, modernized architecture and cut load times from 10–30s to under 4s (~75% faster)
- Rebuilt the core dashboard with Next.js and TypeScript, replacing a legacy system with a PostgreSQL-backed data layer and shipping 10 major production releases in one year
- Delivered new onboarding workflows that reduced garment setup from ~20 minutes to ~2 minutes (~90% reduction), saving users hours of manual work
- Shipped a Shopify integration that removed 100% of manual store-side setup for clients, eliminating configuration errors during onboarding

Independent Software Development Jun 2022 – Sep 2023

Software Engineer Self-Employed

- Engineered real-time data ingestion and processing pipelines in Rust for marketplace and financial data, with async event-driven architecture (Tokio) and Docker
- Developed trading applications with React frontends and Rust backends, integrating external APIs and real-time data feeds across multiple platforms
- Designed high-throughput data storage and indexing systems using PostgreSQL and SurrealDB for pricing, liquidity, and transaction analytics

Valstro Jan 2022 – Jun 2022

Software Engineering Consultant Contract

- Implemented low-latency Rust backend services for a desktop trading platform, handling real-time data workflows with async Rust and PostgreSQL
- Reduced end-to-end latency by 50% by optimizing IPC payload sizes between frontend and backend layers
- Developed React and TypeScript interfaces for complex data-intensive workflows and maintained Node.js sidecar services, reducing crash incidents by 30%

Amazon Web Services (AWS) Jul 2021 – Dec 2021

Software Engineer L6 Position ended due to return-to-office policy after relocation

- Led migration of a legacy Java-based frontend to React and TypeScript, improving maintainability, accessibility, and delivery velocity
- Modernized CI/CD pipelines with Webpack, TypeScript, and AWS CodePipeline, cutting release friction and speeding up deployments
- Mentored engineers through code reviews and technical guidance, strengthening team capability and engineering consistency

Independent Consulting Jan 2020 – Jul 2021

Consultant

- Provided full-stack consulting for enterprise clients including Chick-fil-A and E*TRADE, building React and Node.js applications for high-traffic platforms and financial systems
- Contributed to architecture decisions across frontend, APIs, and cloud infrastructure, improving scalability and reducing page load times

MoneyLion Jan 2019 – Jan 2020

Engineering Manager Role eliminated during company-wide layoff

- Managed a team of 6 engineers, reducing onboarding complexity from 10 steps to 4 and improving user completion with a 20% reduction in drop-off
- Introduced internal analytics tooling to measure funnel drop-off, giving product and engineering visibility into conversion bottlenecks

Teachable Jul 2017 – Jan 2019

Sr. Frontend Engineer

- Led the frontend guild across engineering teams, improving development consistency and shared frontend standards
- Migrated CI/CD build pipeline from Gulp to Webpack, reducing build times from ~30 minutes to under 4 minutes (~87% faster)

Hearst Autos May 2016 – Jun 2017

Lead Software Engineer Contract

- Led 15+ engineers to deliver a new Angular/TypeScript product; contributed to SSR work later incorporated into Angular core by Google

SureDone Jun 2014 – Mar 2016

Senior Software Engineer Role eliminated during company-wide layoff

- Architected RESTful APIs and optimized performance across a scalable e-commerce platform

DiscountTronic Jan 2007 – Jul 2014

Software Engineer

- Created internal tooling with jQuery, PHP, and MySQL that automated eBay listing and inventory workflows, cutting employee copy-paste workload by ~80%