

BIJAN POURRIAH

SENIOR SOFTWARE ENGINEER

Platform engineer who makes complex systems operable

Rust / Python runtimes • APIs & WebSockets • Developer tooling • AI agent workflows

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I build the infrastructure and interfaces that make complex software systems reliable and understandable: runtime platforms, failure-aware integrations, replayable workflows, evaluation pipelines, and developer tooling. 10+ years owning delivery from architecture through production.

10+ YEARS owning systems end-to-end	RUST/PYTHON research and execution systems	\$1M+ live trading capital	MCP + CLI agent and developer interfaces
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SELECTED IMPACT

BUILD THE CORE Shared Rust/Python semantics connected simulation, live evaluation, account state, risk controls, and evidence capture.	INTEGRATE THE EDGES API, WebSocket, auth, and adapter layers connected brokers, market data, execution services, and uneven failure models.	ENABLE THE TEAM Built MCP and CLI interfaces for AI agents and developers, choosing MCP for standardized remote access and CLI tooling for local simplicity and debuggability. Integrated Codex CLI and Claude Code into daily engineering workflows.
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EXPERIENCE

Confidential Financial Systems Client | Senior Software Engineer / Technical Lead

2021-Present | Remote | Platform & Runtime Systems

- Owned the platform.** Architected, built, deployed, and operated a Rust/Python research and execution platform powering production trading workflows across \$1M+ in capital and dozens of production strategies.
- Unified research and production.** Connected strategy research, backtesting, simulation, live execution, account state, risk controls, broker integrations, and evidence capture through shared system semantics.
- Built research and developer tooling.** Created scheduled experiment and replay pipelines, result capture and ranking systems, and interactive research interfaces for comparing large configuration sets and moving strategies toward production.
- Built for real operations.** Designed API, WebSocket, authentication, command/control, MCP, and CLI layers across broker, market-data, and execution systems with different state and failure models; operated them with monitoring, alerting, health checks, dashboards, and runbooks across AWS/Linux.

Rare Isle Fund | Principal Software Engineer

Apr 2019-Jun 2021 | Remote

- Built the engineering function and live trading infrastructure from scratch.** Created a production platform spanning market-data ingestion, research, backtesting, execution workflows, operational controls, dashboards, and monitoring.
- Connected research to execution.** Designed Python/Pandas/SQL pipelines for high-volume parameter sweeps, historical simulation, result storage, strategy ranking, statistical review, and movement into live trading.

FocusVision | Senior Software Engineer

Nov 2015-Jun 2018 | Portland, OR

- Led engineers on integration and migration work as FocusVision consolidated five acquired Rails/PostgreSQL SaaS systems, coordinating deployments and delivering customer-facing improvements.**

EARLIER EXPERIENCE

- 24tru - Software Engineer (2013-2015):** co-owned a small SaaS platform and replaced a slow Solr workflow with a custom Java indexer, improving performance by roughly 100x.
- gloo - Software Developer (2012):** delivered Rails/PostgreSQL features, tests, and fixes.

TECHNICAL RANGE

CORE Rust, Python, SQL, Ruby, Go, TypeScript, Java | **PLATFORM** Docker, AWS, Linux, CI/CD, Grafana, Prometheus
SYSTEMS REST, WebSockets, MCP/CLI, internal tools | **DATA** PostgreSQL, ClickHouse, SQLite, Pandas, replay, experiments