

Shaik Azeem

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Summary

- Software engineer building backend and distributed systems in Rust, Go, and TypeScript.
- Working on cross-chain swap systems at Garden Finance across Bitcoin, EVM, Tron, and beyond.
- Interested in crypto/blockchain, open-source public goods, and building dependable software.

Experience

Garden Finance — Associate Software Developer Oct 2024 – Present

- Worked on the design and implementation of an RFQ-based solver in Rust for cross-chain swaps, spanning quote generation, execution, settlement, and inventory-aware liquidity management.
- Integrated Tron into the swap system, extending HTLC-based execution and enabling production swaps that settle in **under 30 seconds**.
- Led a small team on an internal tooling effort that automated parts of the feature-request-to-PR flow using agentic workflows, reducing manual handoffs and tightening day-to-day engineering loops.

Projects

Munger — RFQ Solver Engine 2025 – Present

- Built an RFQ engine for cross-chain swaps, handling pricing, execution, hedging, inventory rebalancing, and HTLC settlement.
- Added double-entry accounting and fixed-point arithmetic to keep balances, settlement, and P&L calculations deterministic under concurrent flows.

HSM Simulator — Bitcoin + EVM Signing Simulator [GitHub] 2025

- Built a software HSM simulator for Bitcoin and EVM custody and recovery flows, including Taproot PSBT signing (BIP341), EVM hash signing, and an m-of-n admin recovery flow.

API Client Macro — Published Rust Dev Tool [GitHub] [Crates.io] 2025

- Published a Rust macro that generates type-safe HTTP clients from declarative endpoint definitions, expanding one API specification into async traits, concrete clients, and request handling code.

Markdown Utils — Privacy-First Markdown Toolkit [Website] 2025

- Built a privacy-first markdown toolkit with client-side export to PDF, DOCX, and HTML, plus revision diffs, normalization, and document-structure inspection.

Skills

- **Languages:** Rust, Go, TypeScript, Solidity, SQL
- **Systems:** Distributed systems, low-latency services, durable execution, deterministic systems
- **Blockchain:** HTLCs, cross-chain settlement, Bitcoin (Taproot, PSBT), EVM and Tron execution flows
- **Data/Infra:** Relational databases, Redis, observability (logs, metrics, traces)
- **Application/Web:** Node.js, Next.js, React, Tailwind CSS
- **Tooling/Productivity:** Developer tooling, internal automation, agentic workflows

Education

MVGR College Of Engineering (CGPA: 9.5) Nov 2021 – May 2025

- Bachelor of Technology in Computer Science; led the college coding club, mentoring students and helping them build stronger programming and problem-solving foundations.