Anshuman Podali

Software Engineer • Real-time trading systems and applied AI

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PROFILE

Backend engineer, 3+ years in trading systems: buy-side execution products at FlexTrade (.NET, Go), then the Go engine for live crypto futures and options at Delta Exchange, where I became its second-largest contributor in 3 months.

EXPERIENCE

Delta Exchange • Software Engineer

Aug 2026 to Present • Pune

- Split the live-trading run worker into a status board, an order-desk actor and a write-ahead order journal (6-PR stack); in a fake-exchange test with 1 stuck run in 50, the heartbeat round fell from 5.1 s to 113 ms.
- Cut options backtest time per bar 7.5x and allocations 94% with byte-identical golden trade logs; cut WebSocket hub bytes per frame 87%, and LIVE detection of a 50 ms fill from 501 ms to 76 ms.
- Diagnosed a production MySQL server pinned at its IOPS limit (1,451 heartbeat deadlocks a day); slimmed scans and added 4 composite indexes for 95 to 99% fewer reads and 18x faster trade lookups.
- Hardened the co-developed LIVE fill-claim ledger (104 MySQL tests, two isolation levels) and added run-ownership guards, so no sibling run double-books a close and no failover worker trades an account twice.
- Fixed live incidents: straddles half-filled on OI-capped strikes and unwound at a loss, short options run at 200x not 10x leverage, a customer-reported expiry bug; launched XAUT gold options.
- Designed Tenure and built it with coding agents: a ledger scoring AI agents by 14/30-day code survival per module, matching its prototype within 0.1 points on a 2,502-commit repo; caught tests asserting nothing.

FlexTrade • Software Developer

Jul 2023 to Aug 2026 • Pune

- Built backend services in .NET and Go for FlexPairs and N-leg spread trading: linked contingent legs sized by ratio, routed independently and managed as one order, with ledgers synced to the EMS/OEMS.
- Developed FlexAlgoWheel's rule-driven routing, where user-defined conditions decide how street, client, new and staged orders are acted on and which broker algo receives them.
- Built an alerts engine that evaluates user-defined market and order conditions in real time and notifies traders, with AI validation of alert rules in the editor.
- Built Go WebSocket services streaming real-time trading updates to thousands of concurrent connections, and cut trading-dashboard compute time by over 50% by reworking data flow and query paths.
- Built a log processing and diagnostics pipeline over 50 to 100 GB of logs per day, cutting debugging and incident analysis time by over 40%.
- Built RAG code search with embeddings over multi-language codebases; on 30 past issues, lookup time fell over 60% versus manual search.

PROJECTS

BTC Strategy Lab Rust paper-trading research lab across BTC, NIFTY, BANK NIFTY and NSE stocks: 5,499 logged trials, deflated-Sharpe and sealed-holdout gates, 59 losing books retired on pre-set rules.

Cuppa Swift menu-bar app that keeps a Mac awake for AI agents, with a Touch ID secrets vault and safe auto-approval of agent prompts; 180 tests.

PR Lens Prototyped proof-backed findings for a teammate's Rust PR reviewer: each finding's test runs on the PR head and base before it is posted.

SKILLS

Languages	Go, Rust, Python, C#/.NET, TypeScript, Swift
Trading	EMS/OMS/OEMS, pairs and spread trading, algo routing, options and futures, market data, risk, backtesting
Systems	Concurrency, actor model, WebSockets, profiling, MySQL, PostgreSQL, TimescaleDB, MongoDB, Docker, Kubernetes
Applied AI	LLMs (Claude tool use), RAG, vector search, coding-agent workflows, LLM grounding, evals
Web	FastAPI, React, Next.js, Vite, Playwright, Vitest

EDUCATION

B.Tech, Computer Science and Engineering • G.H. Raisoni College of Engineering, Nagpur — 2019 to 2023 • CGPA 8.88