

Rishikesh S.

FOUNDING SOFTWARE ENGINEER | Chennai, India

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SUMMARY

Software engineer with 4+ years building and shipping production systems end to end, across backend, frontend and infrastructure. Founding engineer at Mando: five product surfaces from first commit in under two years, through to the company's first paid tier. Previously two years on real-time trading systems at Quantitative Brokers, working to hard latency and reliability budgets.

TECHNICAL SKILLS

Languages:	TypeScript, JavaScript, Python, Go, Java, SQL
Frontend:	React, Next.js, Angular, Astro, Tailwind CSS, Three.js
Backend:	FastAPI, Node.js, NestJS, SQLAlchemy, REST APIs, WebSockets, Stripe
AI / ML:	LLM applications, Retrieval-Augmented Generation (RAG), Vector search, pgvector, Model Context Protocol (MCP)
Databases:	PostgreSQL, Redis, MongoDB, Alembic
Cloud & DevOps:	Amazon Web Services (AWS), Microsoft Azure, Terraform, Docker, GitHub Actions, CI/CD, Vercel
Tools:	Git, Playwright, Chrome Extensions, Shell scripting, Jira

WORK EXPERIENCE

Mando

Sep 2024 - Present

Founding Software Engineer

Remote

- Built natural language search over Workday's knowledge base: retrieval, ranking and cited answers
- Shipped expert sessions end to end: time-zone-aware booking, Azure video, recording, media editor
- Built the ticketing platform - intake, routing, assignment, resolution - and a workflow-to-docs extension
- Integrated Stripe end to end - subscriptions, checkout, invoicing, entitlement - for the first paid tier
- First engineer: five product surfaces from first commit in under two years, solo across the full stack

Quantitative Brokers

Jul 2022 - Sep 2024

Software Engineer

Chennai, India

- Designed an order monitoring system handling 200 messages/sec of 800-1000 bytes from multiple upstream sources
- Cut application load time from ~40 seconds to under 1 second by moving data loading server-side
- Reduced latency by 20% and CPU usage by 50% on the critical path of the order entry application
- Implemented DV01-based risk calculations for CASH instruments, improving cash stream revenue by 5%

Quantitative Brokers

May 2021 - Jul 2021

Software Development Intern

Chennai, India

- Built a desktop integration prototype with OpenFin, sharing context across four separate applications
- Developed an Angular app plotting financial curves from a live kdb+ database using Highcharts

Earlier: Android developer at Prescribe (2021); software development intern at Workfence Technologies (2020).

PROJECTS

leak - Terminal Subscription Manager github.com/RishikeshSreekumar/leak

Go, Bubble Tea, SQLite, GitHub Actions

- Built a local-first terminal app that tracks and audits recurring subscriptions, shipped as a single Go binary
- Shipped a Homebrew tap, install script and semver releases: macOS, Linux, Windows on amd64 and arm64

deadfall - Dead Component Detector (npm) npmjs.com/package/deadfall

TypeScript, Node.js, ts-morph

- Published an npm CLI that maps a Next.js codebase into a component usage graph and flags unused components
- Exits non-zero on dead code so it doubles as a CI gate, and generates an interactive HTML report for exploring the graph

Rubik's Cube Solver

Next.js, Three.js, Web Workers, PWA

- Built a browser solver running Kociemba's two-phase algorithm in a Web Worker, with webcam cube scanning
- Validates cube state and rejects impossible cubes with a specific reason, not a generic failure

EDUCATION

Indian Institute of Technology, Madras

2018 - 2022

B.Tech, Chemical Engineering

Chennai, India | CGPA 8.58 / 10

Achievements: All India Rank 2275 in JEE Advanced 2018 (155,000 sat it, from 1.1M+ JEE Main candidates); Rank 5 in Kerala, KEAM 2018.