

# SUJAL VIVEK CHOUDHARI

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## Education

**B. Tech in Information Technology, with a Specialization in DevOps (CGPA: 9.15/10)** 2022 – 2026  
*Dwarkadas J. Sanghvi College of Engineering* *Mumbai, India*

## Internship Experience

**Founding Engineer** December 2025 – February 2026  
*RamAIIn (YC W26)* *Remote*

- Joined as the **founding engineer** to architect and build the core infrastructure for high-speed **computer-use AI agents**.
- Engineered the foundational **Model Context Protocol (MCP)** infrastructure, translating high-level AI reasoning into low-level, rapid desktop execution commands.
- Developed **vision-based automation pipelines** that allow AI to navigate complex legacy software **10x faster** than general-purpose models.
- Collaborated to iterate on **product-market fit**, shipping critical features for early pilot customers in insurance and logistics.

**Software Developer Intern** June 2025 – July 2025  
*InTrade SDC (FX Tech)* *Mumbai, India*

- Developed **InMonitor** for sub-millisecond observability in FX trading, integrating **market data, process metrics, and hardware health** into a unified WebSocket using **Java Spring Boot, QuestDB, and Chronicle**.
- Engineered the **InSuite Launchpad** with centralized authentication, role-based access, and automated incident workflows, reducing developer workload by **20%**.
- Architected fault-tolerant microservices consolidating five distributed data streams into a single high-availability endpoint.

## Projects

**Coda — High-Performance Interpreted Language** C++17, Python, FFI  
*Hacktoberfest Maintainer Project*

- Built a systems-level interpreted language with **zero-overhead FFI, custom memory pools, and direct syscall integration**, achieving **8x faster execution than CPython** and **3x faster than Node.js**.
- Designed a modular runtime with **AST-based interpreter, native C++11 interop, and zero-copy data transfer**, enabling low-latency scripting for automation and systems programming.
- Maintained compiler pipeline with **tokenizer, parser, semantic analyzer, and execution engine**; documented internals and mentored contributors during Hacktoberfest.

**Selected Systems & OSS Projects** C++, TypeScript, Assembly  
*Open Source Contributions*

- **FileShare** — Built a cloud-native file sharing service with **313+ GB transferred** and **636K+ uploads**, featuring **local-first UX**, offline support, and real-time sync; deployed on Pocketbase with custom routing and DNS optimization.
- **SquirrelDB** — Designed a Redis-like database engine with **custom data structures, unit tests, and robust error handling**; supports key-value storage, TTL expiry, and modular command parsing.
- **MoldOS** — Built a bootable OS kernel with **custom memory allocator, interrupt handling, and a minimalist shell**; used as a sandboxed runtime and teaching tool for OS internals.

## Achievements

- **12x National Hackathon Winner** — led teams of 4–6 engineers to victory in 12 national competitions, including consecutive **Smart India Hackathon (SIH)** championships in 2023 and 2024; consistently delivered winning solutions under 36-hour deadlines.
- **Winner — 100X Buildathon** — built an AI voice bot reducing hallucinations by **90%**, improving reliability in support flows.
- **Open Source Maintainer** — actively maintain **Coda, SquirrelDB, Mold OS, OpenRAG, and SolarisUI**, focusing on performance, modularity, and contributor onboarding.
- **Presented at Global Fintech Festival (2025)** — showcased adaptive banking solution to **12 national bank MDs**.
- **Selected for Morgan Stanley Parametric Internship (2025)** — systems role in asset management division, focused on backend reliability.

## Skills

**Languages:** Java, C++, Python, TypeScript, SQL  
**Systems:** Distributed Systems, Microservices, Concurrency, Observability, CI/CD, DevOps  
**Technologies:** Spring Boot, Docker, FastAPI, React, Next.js, Git, GCP, Linux  
**Databases:** PostgreSQL, MongoDB, OracleDB, QuestDB  
**Concepts:** System Design, API Development, Data Modeling, Scalability, Performance Optimization