

# SUJAL VIVEK CHOUDHARI

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## Education

**Bachelor of Technology in Information Technology and Honors in DevOps (CGPA: 9.15/10)** 2022 - 2026  
*Dwarkadas J. Sanghvi College of Engineering* *Mumbai, India*

## Internship Experience

**Software Developer Intern** June 2025 - July 2025  
*InTrade Systems (FX tech)* *Mumbai, India (Onsite)*

- Contributed to the development of InSuite—a suite of internal tools supporting Intrade’s **low-latency FX trading engine**, focused on reliability, observability, and system health.
- Led backend development of InMonitor, a **real-time system monitoring solution** that tracks market data, trading engine processes, and hosting hardware health. Built with **Java (Spring Boot)**, **Undertwo (websockets)** and **QuestDB**, optimized for sub-millisecond latencies.
- Designed and engineered the InSuite Launchpad, a central hub that unifies authentication, automated alerting (InAlert), and in-engine ticketing for streamlined incident resolution.

**Backend Developer Intern** March 2024 - April 2024  
*Genoshi Technologies LLC* *Remote*

- Architected and developed a high-performance Python backend using a microservice architecture for FEDaiQuest, a **RAG-based solution** utilizing **Langchain** and the **Llama LLM** model. This system processes and retrieves information with citations from official RBI sources, reducing search times for bankers by 80%.
- Implemented the data ingestion and indexing pipeline for FEDaiQuest, including web scraping, extracting ingestible information, and storing citations with RAG to build a robust knowledge base.
- Collaborated with the **Co-Founder of Genoshi.io** on backend development of the DelCapital X Genishi’s Cicon Project, an automation system designed to streamline data reporting compliance for regulated entities.
- Resolved a complex data synchronization issue between the Excel reader background process and the frontend by using a **streaming response** to update the UI with the processing status.

## Achievements

- Won the **Maha Hackathon Challenge 1.0 (INR 15 Lakh prize)** by the Digital India Bhashini Division. Built a suite of tools (MahaSahayak, MahaChat, MahaSecure, and others) using Gemini 2.0 Flash and an indexed database for instant responses on government portals.
- Won 12 competitive hackathons** nationwide, including **Smart India Hackathon '24 & '23**.
- Secured **First Prize at 100X Buildathon** organized by **Varun Mayya, 100x Engineers and YourStory**, competing among top AI builders.
- Spearheaded development of the **Vyom AI app**, winning **iDEA Hackathon by Union Bank of India** and **INR 5,00,000** for a fraud detection system and UX overhaul.
- Reached and mentored over **1,500 programmers** through educational content: podcasts, books, and blogs.

## Projects

**Coda – An Interpreted Programming Language** C++, Python, DLL  
*Hacktoberfest Maintainer Project*

- Engineered a C++-based interpreted language, Coda, achieving **8x** faster execution than CPython and **3x** faster than Node.js through performance optimization and direct system-level control. Implemented **Foreign Function Interfaces** to enable seamless interoperability with native C++ functions, demonstrating deep understanding of compiler design, system architecture, and low-latency execution critical for financial applications.
- Added Foreign Function Interfaces, allowing C++ functions to be called directly in the Coda language using a new native keyword.

**File Share - Anonymous file sharing** Typescript, Pocketbase  
*300+ Daily active users*

- Engineered a cloud-based file sharing application, File Share, which has facilitated the transfer of over 313 GB of data
- Managed the end-to-end lifecycle of a public-facing service that has been used to upload more than 6,36,410 files to date.

## Skills

**Languages:** TypeScript, Java, Python, C/C++, C# (Unity)  
**Technologies & Tools:** Next.js, FastAPI, Node, Tailwind CSS, Git, Spring Boot  
**Databases:** QuestDB, PostgreSQL