# Nakul Mistry

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## Summary

CS student skilled in building and deploying secure, scalable microservices. Proficient in Java (Spring Boot), DevOps (Docker, AWS), and database management (SQL, MongoDB, Redis) for high-performance systems

## Education

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| **Indian Institute of Technology, Gandhinagar**, M.Tech in Computer Science | 2024 - 2026 |
| **Sardar Vallabhbhai Patel Institute of Technology**, B.E in Computer Engineering | 2019 - 2023 |

## Projects

**SpotifyTUI** *github link*

- Developed a terminal-based Spotify controller using Go and Bubble Tea. Authentication done using OAuth2
- Enables playback control and search capabilities directly from the command line. Styled using Liplgoss

**RetroTrade: AI-Powered Quantitative Backtesting Engine** *github link*

- Developed a backtesting engine to evaluate trading strategies
- Microservices created using Java
- Created a Retrieval-Augmented Generation (RAG) pipeline using LangChain to analyze financial news and generate BUY/SELL/HOLD signals
- AI service done using Python, FastAPI, and Ollama to serve local LLMs (Gemma), using ChromaDB as a vector store and Google AI for embeddings, for a private AI model
- Tools Used: Java, Python, FastAPI, LangChain, ChromaDB

**Chef App** *gauricooks.com* *github link*

- Developed and launched a live deployed working app for a professional chef.
- Backend uses Spring Boot for REST APIs, with JWT-based authentication and Redis for token management. OAuth2 for Google sign-in, and payment processes are done using Stripe
- Fronted uses React. Has both user and admin dashboard for management of the app
- Deployed the application on AWS using Docker, with Nginx configured as a reverse proxy and SSL via Caddy
- Tools Used: Spring Boot, React, MongoDB, Redis, Stripe, Docker, Nginx, AWS

## Experience

**Teaching Assistant**, IIT Gandhinagar — Dec 2024 – Present

- Assisted in teaching the ES113 - Data-Centric Computing course
- Conducted regular tutorial sessions, graded assignments, improved student performance by 25%

**Software Engineer Intern**, Arth Technology — Feb 2023 – May 2023

- Collaborated with teams to implement feature enhancements for a production-grade application
- Worked on database optimization techniques to improve query performance and ensure data consistency

## Technologies

**Languages:** Java, Python, SQL, JavaScript, Golang
**Backend:** Spring Boot, FastAPI, REST APIs, Stripe, OAuth2, Redis
**Databases:** MongoDB, MySQL
**DevOps, Cloud:** Docker, AWS, Git, CI-CD