

# HIMANSHU MAITHANI

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## Professional Summary

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Platform and backend engineer with 2+ years building cloud-native systems, distributed APIs, and data infrastructure at Fidelity Investments and SATS Ltd. Led a 5-member engineering team at Fidelity to deliver a containerized microservices trading platform; engineered production backend at SATS serving 3,000–4,000 daily users across GCP and Azure. NUS Master of Computing (CS) graduate with hands-on experience in AI-integrated systems and multi-agent frameworks.

## Education

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### National University of Singapore

Master of Computing (Computer Science) — GPA: 3.85/5.0

Jan 2025 – May 2026

Singapore

### SRM Institute of Science and Technology

Bachelor of Technology in Computer Science Engineering — GPA: 9.48/10.0

Sep 2020 – Jun 2024

Chennai, India

## Experience

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### SATS Ltd.

May 2025 – May 2026

Technology Solutions Intern

Singapore

- Built automated workforce compliance platform (Python, PySpark, Delta Share) cutting manual oversight by 70% for 2,000+ employees via real-time data workflows and Power BI dashboards; drove on-prem-to-Azure migration using Azure Functions and Microsoft Graph API
- Engineered backend for a GCP-deployed internal operations platform serving 3,000–4,000 daily users: designed REST APIs for live cargo and flight data, role-based authentication, ground-handling workflow management, and automated MAWB document extraction from emails; built a RAG prototype for natural-language querying of operational data

### Fidelity Investments

Jan 2024 – Nov 2024

Software Development Engineer

Chennai, India — Bangalore, India

- Led a 5-member team to deliver a full-stack trading platform (Angular, Node.js, Spring Boot) with 85% TDD coverage and Docker/Kubernetes containerization, improving deployment pipeline efficiency by 20%; earned promotion from intern to Software Development Engineer
- Engineered file reconciliation service processing 100K+ daily records (CSV, JSON, XML, Excel) and integrated a Python data-validation engine automating compliance report generation, cutting financial operations effort by 40%

### Samsung R&D Institute India

May 2023 – Nov 2023

Samsung PRISM R&D Intern

Bangalore, India

- Designed a direct speech-to-speech translation model bypassing ASR/MT/TTS pipeline stages, achieving 40% latency reduction (2.9 PESQ, 23.5 BLEU); published findings at IEEE ICCCNT 2024 and awarded Certificate of Excellence

## Projects

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Kiln | Python, FastAPI, AG2, PostgreSQL, Redis, Next.js, Kubernetes, Terraform

Mar 2026

- Built a self-evolving AI tool registry where a Mistral Large planning agent decomposes natural-language requests into DAGs; a synthesis agent auto-generates tool specs and hot-loads implementations in ~15 seconds across 5 FastAPI microservices with zero downtime
- Implemented MCP OAuth 2.1/PKCE authorization server enabling Claude Desktop, Cursor, and VS Code Copilot integration; deployed on GKE with Terraform IaC, Prometheus/Grafana observability, and AST-based security validation across 201 automated tests

Trade Nexus | Angular, Spring Boot, Node.js, TypeScript, SQLite, Cypress

Dec 2024

- Designed a 5-tier distributed trading platform with real-time pricing engine, portfolio management, and automated robo-advisory; enforced security via JWT, resilience via circuit breaker patterns, and comprehensive Cypress/Jasmine end-to-end test coverage

## Technical Skills

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**Languages & Backend:** Java, Python, TypeScript, SQL — Spring Boot, FastAPI, Node.js, Express

**Cloud & Infrastructure:** GCP, AWS, Azure, Docker, Kubernetes, Terraform, PySpark, CI/CD — PostgreSQL, MySQL, MongoDB, Redis

**Publication:** IEEE ICCCNT 2024 — H. Maithani et al., *Innovations in Real-Time Speech Translation*