

# Himanshu Sardana

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## TECHNICAL SKILLS

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- **Languages:** TypeScript, Python, Go
- **Full-Stack Development:** React, Next.js, React Native, Node.js (NestJS, Express, Hono)
- **Machine Learning:** BERT fine-tuning, LLM pipelines (LangChain)
- **Data & Infrastructure:** PostgreSQL, Redis, Docker, Apache Kafka, GitHub Actions

## WORK EXPERIENCE

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**Full-Stack Engineer Intern — Zylectra** Oct 2025 — Nov 2025

- Architected and deployed a scalable EV booking platform from zero to production, featuring real-time fleet management and intelligent route optimization
- Engineered a microservices backend using Hono, delivering sub-100ms APIs with 99% uptime
- Implemented Apache Kafka-based event-driven architecture for scalable high-concurrency booking workloads

**Freelance Software Engineer — SageAI** Mar 2025 — May 2025

- Delivered a cross-platform React Native application with responsive UI, driving 30% increase in user engagement
- Architected a scalable NestJS backend integrating LLM APIs and JWT-based authentication
- Optimized data layer using Prisma ORM with TanStack Query, reducing query response times from 250ms to 150ms (40% improvement)

## PROJECTS

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**TIET Notegen** [github.com/HimanshuSardana/tiet-notegen](https://github.com/HimanshuSardana/tiet-notegen)

- Developed a TUI tool that scrapes Thapar's paper archive and extracts questions using OCR
- Built intelligent topic-wise classification for efficient academic review and revision
- Automated end-to-end pipeline from scraping to structured output, reducing processing time from 2 hours to 15 minutes (87% reduction)

**Capsule** [github.com/HimanshuSardana/capsule](https://github.com/HimanshuSardana/capsule)

- Designed a minimal container runtime in Go, supporting Linux namespaces and cgroups for process isolation and resource management
- Optimized container startup time to 500ms by implementing a custom init process.
- Developed a CLI for building and running containers, with support for bind mounts and environment variables

**EzLC (Easy LeetCode)** [github.com/HimanshuSardana/ezlc](https://github.com/HimanshuSardana/ezlc)

- Fine-tuned BERT model to classify 3,400+ LeetCode problems into multi-level hierarchy
- Augmented training dataset by 200% via LLM-based paraphrasing, achieving 87% accuracy
- Built interactive Next.js frontend for browsing categorized DSA problems

## ACHIEVEMENTS

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- 3rd Place — IIT Patna Techfest 2023
- Finalists — Zinnovatio 2.0 2025
- 2nd Place — Thapar Hackspire 2025

## EDUCATION

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**Thapar Institute of Engineering and Technology**

*B.Tech, Computer Science Engineering*

- GPA: 8.09/10.0
- Coursework: Data Structures, Algorithms, DBMS, Operating Systems, Machine Learning

Patiala, Punjab

*Aug 2023 — July 2027*