

Moksh Shah

Moksh13112006@gmail.com | [Linkedin](#) | +91 9619785128 | [GitHub](#)

Education

Mukesh Patel School of Technology Management and Engineering

B.Tech in Computer Engineering (Integrated), 4th year

Current CGPA: 3.92

Mumbai, India

Experience

Web Development Intern

May. 2024 – July. 2024

RebelCorp

- Developed a "Contact Us" page for *Jyoti Structures* (jyotisttructures.in/contact-us), optimizing communication channels between vendors, customers, and job contacts, resulting in a **40% increase** in efficiency.
- Led the design and development of the website for The Indian Project (<https://theindianproject.in/>), significantly improving user engagement and the overall digital presence.
- Orchestrated the workflow for a team of **20 developers**, reducing average theme deployment time by **15%** through agile mentorship and code review.

Development Intern

June 2025 – July. 2025

Synergyconnect

- Architected a Polyglot Microservices backend using Spring Boot for core logic and FastAPI for AI processing; implemented real-time Markdown-to-HTML conversion and high-concurrency voting systems.
- Developed secure authentication flows for Forgot Password and error handling, ensuring robust system security.
- Designed and optimized backend logic for conversation naming and truncation, enhancing data management.
- Implemented advanced CSS Glassmorphism and frosted-glass UI components using Tailwind CSS, improving user interface modernity and engagement metrics.

Projects

RailYatri | Smart Railway Dispatcher (SIH 2025 Top 30 out of 125+)

Nov. 2024

- Developed a real-time railway scheduling and conflict resolution platform for the Mumbai Railway network using MILP (Mixed-Integer Linear Programming) and Deep Reinforcement Learning to optimize dispatching decisions
- Architected a high-performance system using FastAPI and Neo4j graph database to manage complex spatial-temporal railway data, enabling automated scheduling that reduced conflict resolution time by **60%** compared to manual dispatching.

HTTP over TCP | Systems programming

Jan. 2025

- Engineered a high-performance HTTP/1.1 server from scratch in Go, bypassing the standard net/http library to implement core networking protocols directly on raw TCP streams.
- Developed a custom request parser to handle concurrent connections, headers, and body streams, providing deep insight into protocol-level communication and resource management.
- Optimized server performance using Go's concurrency primitives (goroutines and channels) to handle multiple simultaneous requests with minimal memory overhead.

Technical Skills

- Languages: Python, GO, C++, JavaScript, TypeScript, SQL, Jinja, Java, R
- Frontend Technologies: Next.js, Astro, React, Tailwind, Bootstrap, jQuery, Shadcn
- Backend Technologies: Flask, FastAPI, Neo4j, Express, MongoDB, SQLite, SQL, PostgreSQL, Spring Boot, django, JWT, REST API, Webhook, GCP
- Data Science & Machine Learning: Numpy, Pandas, LLMs, ML, matplotlib, Scikit-learn, PyTorch, LangChain, RAG
- Tools & Others: Linux, Docker, Firebase, Git, Figma, Postman, Adobe Lightroom, Davinci resolve, Supabase, Sanity