

LAKSHYA MITTAL

Full Stack Web Developer

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[My Portfolio](#) [LinkedIn](#) [Github](#)

SUMMARY

Full-stack developer skilled in Next.js, React, Node.js, and TypeScript. Passionate about building AI-powered, production-grade, secured applications. Expanding knowledge into **Generative AI** and **System Design** to architect scalable, intelligent solutions.

PROJECTS

AI Trip Planner — Full-Stack AI-Powered Travel Planning Platform

- **Tech Stack:** Next.js · Node.js · Express · MongoDB · Google Gemini AI · JWT · Amadeus API · Google Maps · Rome2rio · Foursquare
- Architected and built a **production-grade** backend aggregating 7 external APIs in parallel to deliver **real-time flights, trains, hotels, taxis, car rentals, tourist attractions**, and **weather** forecasts for any destination worldwide.
- Integrated Google **Gemini 2.5 Flash** to generate 3-tier budget-optimized itineraries (budget/moderate/premium) with **day-wise plans**, local food recommendations, and smart transport selection.
- Implemented enterprise-grade **JWT** authentication with access/refresh token rotation, **Argon2id** password **hashing**, **token theft detection**, and automatic **session** invalidation across devices.
- Designed an async trip planning pipeline using **Promise.allSettled** for **parallel API** orchestration with graceful partial-failure handling — trips remain usable even if individual APIs fail.
- Centralized **error handling**, **Joi validation**, **rate limiting**, **NoSQL injection protection**, and structured **Winston logging**.

FastGo – Full-Stack Ride-Sharing Platform

- **Tech Stack:** Next.js · Node.js · Express.js · MongoDB · Google Maps API · JWT
- **System Design & Working:** Built a complete full-stack ride-sharing platform with a responsive **Next.js** frontend and a **scalable Node.js** backend to handle user/captain bookings
- **Core Problem Solved:** Developed a dynamic fare-estimation engine integrating the **Google Maps API** (Distance Matrix & Autocomplete) to instantly calculate accurate, vehicle-specific pricing based on live geospatial data.
- **Robust Security:** Security using **JWT**, **bcrypt** for hashing, and **crypto** for uncrackable OTPs.

EDUCATION

Poornima College of Engineering

Sep 2024 - present

- Bachelor of Technology
- Computer Science Engineering in CyberSecurity

SKILLS

- **Programming Languages:** JavaScript
- **Frontend:** HTML5, CSS3, JavaScript, React, Next.js, Tailwind
- **Backend:** Node.js, Express
- **DataBase:** MongoDB, SQL
- **Cloud/Deployment:** AWS, Docker
- **Others:** Redis, Rate Limiting, RabbitMQ
- **Future skills:** Gen AI, System Design, Competitive programming