

Kapil Nila

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SUMMARY

IIT Ropar engineer specializing in high-performance backend systems, real-time applications, and scalable full-stack platforms. Experienced with React, Django, FastAPI, AWS, WebSockets, and distributed architecture.

EDUCATION

Indian Institute of Technology (IIT) Ropar

Bachelor of Technology in Electrical Engineering

Punjab, India

Graduated: Jan 2025

- JEE Advanced AIR 3920 (Top 2%), JEE Mains (Top 1%)
- Relevant Coursework: Data Structures & Algorithms, Machine Learning, OOP, System Design

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks & Technologies: FastAPI, Django, React, Angular, REST APIs, WebSockets, Azure (basics)

Tools & Cloud: Git, MySQL, PostgreSQL, AWS, Azure, Docker, CI/CD, Bash, MATLAB, VS Code

EXPERIENCE

Backend Engineer Intern

June 2025 – Aug 2025

Bluestock Fintech

Remote

- Built scalable backend services using Python, FastAPI, and Django for real-time stock analytics processing 10K+ requests/day
- Executed WebSocket connections for live market data streaming with monitoring and degradation detection
- Collaborated with cross-functional teams to design RESTful APIs and define technical requirements for features
- Optimized database queries and applied caching strategies, improving system performance by 35%

Full Stack Developer Intern

Mar 2025 – May 2025

Unified Mentors

Remote

- Enhanced e-commerce frontend using React.js and Vue.js with code reusability, improving page load speed by 25%
- Built component library with 20+ reusable UI components following design patterns, reducing development time by 30%
- Integrated third-party APIs and enforced responsive design ensuring consistency across platforms

PROJECTS

Real-Time Pair Programming Platform

FastAPI, React, TypeScript, PostgreSQL, WebSockets

[github.com/kapilnila/Real-Time Pair](https://github.com/kapilnila/Real-Time-Pair) | 2025

- Engineered collaborative code editor with real-time synchronization using WebSockets supporting concurrent users
- Applied async SQLAlchemy with PostgreSQL for session persistence and Redux Toolkit for state management
- Monitored system performance and executed error handling to ensure high availability and reliability

AI Prompt Marketplace (SaaS Platform)

Django, React, PayPal API, PostgreSQL

github.com/kapilnila | 2025

- Built full-stack cloud application with JWT authentication and payment integration serving 100+ users
- Designed REST APIs following best practices and deployed via CI/CD pipeline achieving 99.8% uptime

Real Estate Listing Platform

Django, React, Google Maps API, MySQL

github.com/kapilnila | 2025

- Expanded property listing application with Google Maps integration handling 100+ listings with pagination
- Enforced advanced filtering and search functionality with optimized database queries for efficiency

ACHIEVEMENTS

Problem Solving: 250+ LeetCode problems (Graphs, DP, Greedy, Trees) and 150+ GeeksforGeeks problems

Certifications: McKinsey Forward Program, Google Cloud Vertex AI Prompt Design

Honors: NTSE National Scholar — National scholarship recipient

Leadership: NSS Coordinator (Led 10+ volunteers), Alumni-Student Coordinator at IIT Ropar