

Gaurav Khatri

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Education

B.Tech in Computer Science and Engineering
Gateway Institute of Engineering and Technology, Sonipat
CGPA: 7.5/10

Sep 2022 – July 2026

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Networks, DBMS, Object Oriented Programming, System Design

Work Experience

NullClass – Web Development Intern, Remote Jul 2024 – Aug 2024

- Engineered responsive full-stack web applications using MERN stack, enhancing application usability and modularity.
- Designed and implemented RESTful APIs to streamline client-server communication and improve data flow efficiency.
- Applied clean coding practices and Git-based version control to ensure maintainable and production-ready codebase.
- Collaborated in an agile environment, delivering feature enhancements within defined timelines.

Projects

High-Performance HTTP Web Server in C++ (Multithreaded Networking Engine)

- Architected a lightweight HTTP server from scratch using C++ and BSD sockets to handle concurrent client connections efficiently.
- Implemented multithreading with thread pools and synchronization mechanisms to improve request handling throughput.
- Integrated WebSocket protocol support enabling real-time bidirectional communication.
- Designed foundational WebRTC signaling workflow to demonstrate peer-to-peer communication concepts.
- Applied TCP/IP networking principles, request parsing optimization, and memory-safe design using RAII and STL.

Twitter – Scalable Social Media Platform (Full Stack)

- Architected a full-stack Twitter-like social media platform using Node.js, GraphQL, Prisma ORM, PostgreSQL, and Supabase.
- Implemented secure authentication with Google OAuth 2.0, JWT-based session management, and Redis caching for performance optimization.
- Designed relational database schema with Prisma ORM enabling efficient user, tweet, like, and follow relationships.
- Built real-time tweet interactions and optimized query fetching using React Query and GraphQL subscriptions.
- Developed responsive frontend with React, TypeScript, and TailwindCSS ensuring scalable and type-safe UI components.

OpenRouter AI Integration Platform – Multi-Model AI Gateway

- Built a scalable backend layer integrating OpenRouter API for dynamic large language model routing.
- Engineered asynchronous request handling to manage concurrent API calls efficiently.
- Implemented structured logging and rate-limiting strategies to improve system reliability and stability.
- Designed extensible architecture to support future AI model integrations.

Technical Skills

Languages: C++, Java, Python, JavaScript, SQL

Frameworks & Libraries: React.js, Node.js, Express.js, GraphQL, Prisma ORM, React Query, TailwindCSS

Core Concepts: Data Structures & Algorithms, OOP, Multithreading, Networking, Operating Systems, System Design

Tools: Git, GitHub, Linux, REST APIs, PostgreSQL, Supabase, Redis

Certifications

- Mastering Data Structures and Algorithms, React, CSS3, CN, OS, DBMS, OOPs – LinkedIn Learning
- JavaScript, Clean Coding – IBM
- C Programming & Data Structures in C – Great Learning

Achievements

- Solved 50+ problems on LeetCode demonstrating strong problem-solving and DSA proficiency.
- Secured 1st Rank in Web Wizard Competition for outstanding web development performance.
- Built multiple production-grade full-stack and systems-level projects focusing on scalability and performance optimization.