

# GAURAV KUMAR

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## Summary

**Full Stack Developer and GenAI Engineer** experienced in **MERN Stack, Next.js, FastAPI, and system design**, with expertise in **scalable APIs, real-time systems (MQTT, Redis), and AI-driven applications**. Strong **problem-solving and collaboration skills**, with experience delivering **production-ready, high-performance enterprise solutions**.

## Technical Skills

### Backend & APIs:

Node.js, Express.js, FastAPI, RESTful API Design, JWT Authentication, Role-Based Access Control (RBAC)

### Databases & Storage:

MongoDB, PostgreSQL, SQL, NoSQL, Prisma ORM

### Real-Time & Messaging:

MQTT, Redis (Caching, Pub/Sub), Event-Driven Architecture, RabbitMQ

### Frontend Engineering:

Next.js, React.js, HTML5, CSS3, Tailwind CSS

### AI & GenAI Systems:

LLMs, Retrieval-Augmented Generation (RAG), LangChain, OpenAI API, Vector Databases, Prompt Engineering

### DevOps & Cloud:

Docker, CI/CD Pipelines, Google Cloud Platform (GCP), Linux (Ubuntu), Nginx

### Programming Languages & CS Fundamentals:

C/C++, JavaScript, Python, Object-Oriented Programming (OOP), DBMS, Computer Networks, System Design

### Tools & Platforms:

Git, GitHub, Postman, VS Code, Firebase, Supabase

## Experience

### GenAI Engineer Intern

#### **Simplify Consulting (India) Private Limited**

Dec 2025 – Present  
Chandigarh, India

- Worked on enterprise-grade AI-driven platforms involving **system design, full-stack development, and real-time architectures**.
- Designed and developed **scalable backend services** using **FastAPI** with modular REST APIs and role-based access control.
- Implemented **real-time communication** using **MQTT** and **Redis** for low-latency event-driven workflows.
- Built **full-stack web applications** using **React** for admin dashboards and operational interfaces.
- Developed a **native Android application** using **Kotlin and Jetpack Compose** as part of an end-to-end enterprise system.
- Integrated **Generative AI and ML components** for intelligent automation, analytics, and decision-support features.
- Containerized services using **Docker** and worked with cloud-native deployment pipelines.

### Full Stack Web Developer (MERN)

#### **Software Development Center, Manipal University Jaipur**

Jan 2025 – Jun 2025  
Jaipur, India

- Led development of **MentorLink**, a full-stack mentorship platform (**MERN + Next.js**) serving **500+ users**.
- Implemented **secure RESTful APIs** with **JWT authentication** and **multi-role access control**.
- Optimized database queries and backend logic, improving **API response performance**.

### Software Developer Intern

#### **AGILITYAI Private Limited**

Jun 2025 – Sept 2025  
Remote

- Built scalable platforms including **Fairly-Settled, Edumaniax, and Invoicely – Billing System**.
- Developed **Invoicely** using **Next.js, Node.js, and MongoDB** with secure authentication, role-based dashboards, PDF export, and **Razorpay** integration.
- Migrated backend services from **Flask** to **Node.js microservices**, enhancing scalability and maintainability.
- Automated deployments using **Docker** and **GCP**, streamlining CI/CD workflows.

## Projects (A Few of My Works)

### **MentorLink – Mentorship Platform**

**Tech Stack:** Next.js, Node.js, Prisma, MongoDB, Tailwind CSS

🌐 mentorlink-nu.vercel.app

Built a full-stack mentorship management system with role-based access, real-time dashboards, automated email notifications, and session tracking for students and mentors.

### **AI RAG Chatbot – Freelance Project**

**Tech Stack:** Next.js, Python, LangChain, OpenAI API, Pinecone

Developed a Retrieval-Augmented Generation (RAG) system by processing a 1000-page book into a vector database and integrating it with a chatbot for context-aware, intelligent responses.

## Achievements & Awards

- **2nd Rank in International Project Expo** – MentorLink, Manipal University Jaipur (2025)
- **Top Performer** – AGILITYAI Internship, recognized for backend migration and deployment automation (2025)
- **Star Performer in SDC** – Software Developed Under Software Development Center (SDC MU)

## Education

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### **Manipal University Jaipur**

B.Tech in Computer Science and Engineering

*Expected 2026*

*GPA: 7.91*

### **Govt. +2 High School, Supaul**

Intermediate (PCM)

*Apr 2021*

*75.4%*

### **Sanskar Bharti Global School, Bihar**

10th Grade

*May 2019*

*89.90%*

## Certifications

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- Full Stack Web Developer (Udemy) – Certificate
- Next.js Development (Meta Brains) – Certificate
- DSA in C/C++ (Udemy) – Certificate
- CCNA Enterprise Networking & Security (Cisco) – Badge