

# Rohit Kumar

7006380917 / [vermarohit7780@gmail.com](mailto:vermarohit7780@gmail.com) / [LinkedIn](#) / [GitHub](#) / [Portfolio](#) / [LeetCode](#)

## EDUCATION

<b>BLDEA's College of Engineering &amp; Technology, Vijayapura (Karnataka)</b>	CGPA – 8
<i>B.E in Computer Science and Engineering</i>	2022 – 2026
<b>K. K Vidyalaya Sr. Sec. School Billawar (Jammu &amp; Kashmir)</b>	Percentage – 88.2
<i>HSC 12</i>	2021 – 2022
<b>K. K Vidyalaya Sr. Sec. School Billawar (Jammu &amp; Kashmir)</b>	Percentage – 84
<i>SSC 10</i>	2019 – 2020

## PROJECTS

### **My Video Call** / React, WebRTC, Socket.IO, Node.js, Express.js, MongoDB

- Engineered a real-time video communication platform handling **50+ concurrent users** using WebRTC, reducing connection latency by **35%** through optimized signaling logic.
- Developed a scalable signaling pipeline (Node.js + Socket.IO) that improved event throughput by **40%**, ensuring stable peer-to-peer sessions.
- Optimized media stream handling with complexity-aware debugging, reducing jitter and packet loss by **25%**.
- Live Demo: [My Video Call](#) | [GitHub](#)

### **My GPT** / React, Node.js, Express.js, MongoDB

- Designed a full-stack AI chat system supporting **multi-threaded conversational flows**, reducing response bottlenecks by **30%** using asynchronous workers.
- Built RESTful APIs with strict documentation and clean-code guidelines, reducing backend error rates by **20%** and speeding up feature iteration.
- Integrated DeepSeek/OpenRouter LLM APIs with structured validation, cutting invalid message saves by **90%**.
- Live Demo: [My GPT](#) | [MyGPT](#)

### **AeroRide** / React, Node.js, Express.js, MongoDB, Socket.IO, Google Maps API

- Developed a real-time ride-sharing platform for **100+ simultaneous clients**, using Socket.IO to achieve sub-second event propagation.
- Implemented concurrency-safe location tracking and worker-based background jobs that improved route accuracy by **22%** and fare calculations by **18%**.
- Integrated Google Maps API and optimized routing algorithms, reducing driver ETA mismatches by **20–25%**.
- Live Demo: [GitHub](#)

## TECHNICAL SKILLS

**Languages:** Java, JavaScript, Python

**Front-End :** React, HTML5, CSS3, Next.js

**Back-End :** Node.js, Express.js, REST APIs

**Database :** MongoDB, SQL, PostgreSQL

**DevOps & Cloud :** Git, Docker, Kubernetes, CI/CD Pipelines, GitHub Actions, AWS

**Core Concepts :** Data Structures & Algorithms, Operating System, OOP, Computer Networking, DBMS

## CERTIFICATIONS

**Full Stack Web Development** : Apna College

**Data Analytics Essentials** : Cisco Networking Academy

**Participation Certificate** : Adobe India Hackathon

## LEADERSHIP AND TECHNICAL ACHIEVEMENTS

**Winner** — College Tech Competition for innovative problem-solving in full-stack design

**400+** LeetCode problems solved demonstrating strong analytical and debugging skills

**Hackathon Organizer** — Mentored 50+ participants, handled technical setup and project reviews