

Rohit Kumar

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EDUCATION

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