

# VISHAL KUMAR

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## EDUCATION

### Institute of Engineering and Management

Bachelor of Technology in Information Technology – 8.7/10 CGPA

Kolkata, India

August 2022 – Present

## EXPERIENCE

### Backend Developer

Espo

Remote

July 2025 – Present

- Developed a real-time leaderboard system for esports tournaments using Node.js and WebSockets, enabling live ranking updates for 10K+ concurrent users.
- Implemented live commentary and game update features with WebSocket-based communication, reducing data latency by 30% and enhancing user engagement.
- Documented REST API endpoints using Swagger/OpenAPI specifications.

### Backend Developer

Fiel

Remote

January 2025 – June 2025

- Implemented geo-based coordinates with 2dsphere indexes for efficient querying, job matching using Redis for online providers and MongoDB for offline providers, reducing matching latency by 25%.
- Engineered a wave-based notification distribution microservice with Bull Queue and Redis, delivering 7K+ real-time notifications weekly.
- Integrated Razorpay for secure payment processing, streamlining transactions for 1K+ weekly bookings.

## PROJECTS

### Devcord

Developer-focused collaboration platform | [GitHub](#)

January 2025 – March 2025

- A Discord alternative for developers using Next.js and Node.js, improving team productivity through real-time messaging and developer-focused code collaboration features.
- Implemented WebSocket-based real-time chat and presence tracking and a server-channel system, supporting over 1,000 concurrent users, optimizing message delivery by 40%.

### Interview AI

AI-Driven Interview Simulation Platform | [GitHub](#) | [Live](#)

May 2025 – June 2025

- Developed a full-stack Next.js app with Node.js, storing resumes in AWS S3 and generating tailored interview sessions for 500+ users.
- Implemented AI-driven question generation using gemini, ensuring the interview context.

### Write Flow

Full Stack Blogging App | [GitHub](#) | [Live](#)

July 2024 – September 2024

- Designed and developed Write Flow, a full-stack Next.js/Node.js platform featuring distraction-free writing with real-time auto-save that maximized productivity and content integrity.
- Implemented comprehensive rich text editing and Markdown support, enabling intuitive content formatting while maintaining a clean, minimalist user interface.

## ACHIEVEMENTS

- Finalist in SIH'24 under ISRO:** Developed an AI-based frame interpolation system for satellite imagery, optimizing data processing pipelines.
- Won Soul AI Track at Diversion 2k25** [[GitHub](#)]: Created an AI-driven platform for mock interviews and recruiter workflows.
- Won Godspeed Track at MLH Hackbyte 2.0:** Built a real-time sign language translation model using OpenCV and ML, with efficient data streaming.

## SKILLS SUMMARY

**Backend:** Node.js, Redis, Kafka, REST APIs, WebSockets, Socket.io, MongoDB, PostgreSQL, Mysql, Typescript

**Cloud & DevOps:** Docker, Serverless, S3, AWS

**Tools & Testing:** Git, Jest, Mocha, Zod, Postman