VISHAL KUMAR

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CAREER OBJECTIVE

Passionate full-stack developer driven by innovation, aiming to leverage strong problem-solving skills and open-source expertise to deliver impactful, scalable solutions..

EDUCATION

Institute of Engineering and Management   Kolkata, India
Bachelor of Technology in Information Technology - 8.6 YGPA   *August 2022 – Present*

EXPERIENCE

Fiel   Remote
Backend Developer Intern   *January 2025 – Present*

- Implemented a secure authentication system with role-based access control (RBAC), ensuring efficient permission management.
- Developed a real-time location tracking system, optimizing response time by 40% for service providers.
- Engineered a scalable notification system handling 10K+ real-time notifications daily, improving user engagement.
- Designed and optimized RESTful APIs, reducing average response time by 30% through efficient query handling.

PROJECTS

Devcord
Developer-focused collaboration platform | **GitHub**   January 2025 - Present

- A Discord alternative for developers using Next.js and Node.js, improving team productivity through real-time messaging and developer-focused chat features
- **Engineered WebSocket-powered functionality**, including presence tracking and a server-channel system, supporting over 1,000 concurrent users with seamless performance.
- **Built a scalable backend** with Redis and Kafka, reducing latency by 40% and streamlining communication.
- **Implemented collaborative coding and project management**, achieving a 90% user retention rate during initial testing phases.

Write Flow
Full Stack Blogging App | **Live Demo** | **GitHub**   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** for creating an AI-based frame interpolation system for satellite imagery visualization.
- **Won Soul AI Track at Diversion 2k25** [Github] by developing platform enabling mock interviews with AI-driven feedback for users, while streamlining recruiter workflows with resume shortlisting, automated emails, and AI-powered interviews to efficiently filter candidates.
- **Won the Godspeed Track at MLH Hackbyte 2.0** by developing a real-time sign language translation model using OpenCV and ML.
- **Contributed to Animata** [Github, Live], an open-source animation and interaction library enabling seamless copy-paste animations.

SKILLS SUMMARY

Frontend: Next.js, React, Redux, Zustand, Tauri
Backend: Node.js, Golang, Redis, Kafka, REST APIs, Socket.io
Cloud & DevOps: Docker, Kubernetes, Serverless, CI/CD