

DAVID KUMAR FULE

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PROFESSIONAL SUMMARY

Full-Stack (MERN) Developer with hands-on Internship and open-source experience delivering production-grade web applications, RESTful APIs, and AI/LLM-integrated platforms. Proficient in **React.js, Node.js, Express.js, MongoDB, and PostgreSQL**, with demonstrated expertise in JWT authentication, real-time communication (Socket.io), and vector database integration (Pinecone). Experienced in Agile development, responsive UI design, and cloud deployments (AWS, Vercel). Passionate about leveraging Generative AI APIs and RAG architectures to build intelligent, scalable solutions.

EDUCATION

International Institute of Information Technology, IIIT Naya Raipur Nov 2022 - Jul 2026 (Expected)
B.Tech in Electronics and Communication Engineering

EXPERIENCE

Full-Stack Developer Intern Feb 2025 - Apr 2025
Infosys Springboard Remote

- Engineered **HireHelper**, a full-stack on-demand task assistance platform using **React.js, Node.js, Express.js, and PostgreSQL**, enabling seamless task posting, discovery, and real-time coordination between task creators and helpers across 4 core modules.
- Implemented **email-based OTP verification** and **JWT authentication** from scratch, securing all user registration and login flows and achieving zero unauthorized access incidents during end-to-end testing.
- Designed a **normalized PostgreSQL relational database schema** across 5 entities (User, Task, AcceptedTasks, Requests, Notifications), establishing **referential integrity** and optimizing query performance for scalable CRUD operations.
- Built a **real-time in-app notification system** and request management workflow (accept/decline/pending status tracking), enabling live task coordination between users and reducing manual follow-up overhead.

Open Source Contributor Oct 2024 – Nov 2024
GSSoC (GirlScript Summer of Code) Remote

- Contributed to **5+ production-grade open-source repositories**, submitting meaningful pull requests reviewed and merged by global maintainers within a competitive 2-month program.
- Resolved complex front-end bugs ensuring **cross-browser compatibility** and adherence to modern JavaScript best practices; participated in peer code reviews to maintain codebase quality.
- Applied **Git workflows** (branching strategies, rebasing, merge conflict resolution) to maintain clean, scalable, production-ready codebases across multiple concurrent projects.

PROJECTS

Aurora AI Live Demo
React.js, Node.js, Express.js, MongoDB, Socket.io, Pinecone Vector DB, Google Gemini API, JWT, REST API

- Developed a **production-grade AI-powered chatbot** with real-time bidirectional messaging via **Socket.io**, secure **JWT authentication**, and a responsive UI capable of handling **500+ users/day** on a scalable Node.js + MongoDB backend.
- Built a **modular RESTful API backend** using Express.js and MongoDB, implementing secure session management, rate limiting, and structured error handling for production reliability.
- Integrated **Google Gemini API with Pinecone Vector Database** to implement a **RAG (Retrieval-Augmented Generation)** pipeline, enabling persistent memory and semantic context retrieval with **95%+ conversation accuracy**.

TECHNICAL SKILLS

Languages	JavaScript (ES6+), TypeScript, Python, HTML5, CSS3
Frameworks	React.js, Next.js, Node.js, Express.js, Flask, Django, Vite.js, TailwindCSS, ShadCN UI, SCSS, Redux
Databases	MongoDB, PostgreSQL, SQL, Pinecone (VectorDB), GraphDB
Cloud & DevOps	AWS, Render, Vercel, CI/CD Pipelines, RESTful API Design, Docker
Dev Tools	Git, GitHub, VS Code, GitHub Copilot, Postman, React/Redux DevTools
AI & Gen AI	LLMs, RAG, LangGraph, Google Gemini API, Agent SDK, Prompt Engineering, AI Automation

ACHIEVEMENTS & CERTIFICATIONS

- Infosys Springboard Internship** – Full-Stack Developer Intern, HireHelper Project Certificate
- Web Dev Hackathon Participant** – Sheryians Coding School Certificate
- Open Source Contributor** – GSSoC'24 Certificate
- Hackathon Participant** – GHCI'25 Certificate