VAIBHAV KUMAR KANDHWAY

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Professional Summary

Full-stack developer specializing in AI/ML applications with expertise in React, Next.js, Python, and FastAPI. Built 4 production applications serving real users with measurable impact including 40 percent downtime reduction and 92 percent prediction accuracy. Proficient in modern web technologies, machine learning frameworks, and cloud infrastructure. Seeking software engineering roles in AI, healthcare technology, or full-stack development starting June 2026.

Education

Vellore Institute of Technology   Bhopal, India
Bachelor of Technology in Computer Science Engineering   *Expected May 2026*

- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming, Software Engineering

Technical Skills

Languages: JavaScript | TypeScript | Python | C++ | SQL | Bash
Frontend: React | Next.js | HTML5 | CSS3 | Tailwind CSS | Redux | Responsive Design
Backend: Node.js | Express.js | FastAPI | RESTful APIs | GraphQL | Microservices
Databases: PostgreSQL | MongoDB | Redis | Prisma ORM | MySQL
AI/ML: TensorFlow | Scikit-learn | LangChain | Ollama | RAG (Retrieval-Augmented Generation)
DevOps and Tools: Git | Docker | AWS (EC2, S3) | Vercel | CI/CD | Linux/Unix | Agile/Scrum

Projects

Allma Studio - Privacy-First AI Chat Platform | *React, FastAPI, Python, Ollama, LangChain, RAG*   **January 2026**
- Developed local AI chat application with Retrieval-Augmented Generation achieving 100 percent data privacy with zero cloud dependency
- Engineered FastAPI backend with Ollama for on-device LLM processing supporting multiple AI models
- Built document ingestion pipeline supporting PDF, TXT, DOCX with vector embeddings and real-time streaming

CuraSense - AI Healthcare Diagnostic Platform | *Next.js, TypeScript, FastAPI, Python, TensorFlow*   **January 2025**
- Built healthcare SaaS platform with ML-powered prescription analysis, medical imaging diagnosis, and drug comparison
- Integrated computer vision models for X-ray and MRI analysis achieving 85 percent plus diagnostic accuracy
- Developed TypeScript Next.js frontend with server-side rendering achieving sub-2 second page load times

PredictiveCare - Industrial IoT Maintenance System | *Next.js, React, FastAPI, PostgreSQL, AWS*   **December 2024**
- Engineered full-stack IoT solution with ML-powered failure prediction reducing unexpected downtime by 40 percent
- Developed real-time sensor data processing pipeline handling 10,000 plus data points per minute with Redis caching
- Built Random Forest and XGBoost models for equipment failure prediction with 92 percent accuracy

Leadership and Activities

University Cyberwarriors Club   **2022 - 2023**
Member   *Vellore Institute of Technology, Bhopal*

- Collaborated with team of 10 plus members to organize coding challenges, hackathons, and technical workshops on cybersecurity
- Facilitated knowledge-sharing sessions on secure coding practices, vulnerability assessment, and ethical hacking