

DIVYANSHU KUMAR

☎ +91-9801894330 ✉ dk5506934@gmail.com 🔗 LinkedIn 🌐 GitHub ⚙️ GFG 📌 LeetCode: 400+ Problems

SUMMARY

Software Engineer with experience building scalable apps across **frontend, backend, and AI-driven systems**. Skilled in **React.js, Node.js, Python, and modern frameworks** to develop end-to-end solutions. Experienced in integrating **machine learning models and LLM-based AI features** into production systems. Strong foundation in **data structures, algorithms, and system design**, with **450+** problems solved. Passionate about solving real-world problems through clean, efficient, and scalable software.

EDUCATION

Bihar Engineering University, Patna

2022 – 2026

Bachelor of Technology (B.Tech) in Electronics and Communication Engineering

CGPA: 8.00

- Relevant Coursework: Data Structures, Operating Systems, DBMS, Computer Networks

EXPERIENCE

Java Full Stack Developer Intern

Nov 2025 – Jan 2026

Infosys Springboard

Remote

- Architected end-to-end Legal Aid Matching Platform using **Java, Spring Boot, React.js, and PostgreSQL**, connecting citizens with verified pro bono lawyers through intelligent matching.
- Integrated **NGO Darpan & Bar Council APIs**, indexing **1000+** legal profiles with automated verification workflows.
- Integrated **AI RAG chatbot** using LLM APIs to provide automated legal assistance & query resolution.
- Integrated **JWT/OAuth2** with role-based access control, and real-time communication using **WebSocket**.

Full Stack Developer Intern

May 2025 – July 2025

CertifyO

Remote

- Constructed a scalable Intern Management System using **React.js, Node.js, Express.js, and MongoDB**, supporting **300+ concurrent users** with **99.8%** uptime.
- Designed and launched **20+ RESTful API endpoints** with **MongoDB** indexing and query optimization techniques, improving data throughput by **40%** and reducing response time by **35%**.
- Built a Mock Test Platform using **React.js, Node.js & MongoDB**, processing **500+** test sessions.
- Optimized application performance using **Redis** in-memory caching for session management, reducing API response times by **60%**, decreasing database load by **35%**, and achieving **99.8%** system uptime.

PROJECTS

Road Hazard Detection System 📄 | PyTorch, YOLOv8, FastAPI, React Native

Feb 2026

- Trained and optimized a **YOLOv8 obj detection model** achieving 85% mAP with optimized inference for real-time deployment.
- Designed and deployed **React Native** app with on-device inference using **TensorFlow Lite**.
- Engineered real-time **WebSocket alerts** backed by **PostgreSQL** and **Redis** for 2km proximity detection.
- Implemented CI/CD pipelines to automate testing and deployment of full-stack apps.

AICruit - AI Interview Platform 📄 | Next.js, TypeScript, Firebase, Vapi AI

Nov 2025

- Architected AI interview simulator with **Next.js, TypeScript, Redux** supporting **100+ sessions**.
- Integrated **Vapi AI** for adaptive question generation and speech pattern analysis.
- Optimized **Firebase** with indexing and caching reducing latency by **40%**.
- Established real-time feedback system with batch operations and connection pooling.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Java, SQL
- **Frontend Development:** React.js, Next.js, Redux, HTML5, CSS3, Responsive UI Design
- **Backend Development:** Node.js, Express.js, FastAPI, Spring Boot, REST APIs, Microservices
- **AI / ML:** PyTorch, TensorFlow, NLP, GPT APIs, Retrieval-Augmented Generation (RAG), LLMs, AI Agents
- **Databases:** PostgreSQL, MongoDB, Redis, SQL/NoSQL Databases
- **DevOps & Cloud:** Docker, CI/CD Pipelines, Linux, AWS/GCP, Git, GitHub, Postman
- **Core CS:** Data Structures, Algorithms, Object-Oriented Programming, System Design

CERTIFICATIONS & ACHIEVEMENTS

- **Certifications:** AWS Solutions Architect Associate — Oracle AI Foundations — J.P. Morgan Software Engineering — Agentic AI By Hugging Face — Advanced MCP server By Anthropic