MD SHAMOEL FAROOQUI

Full Stack Developer & AI Engineer

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Summary

Pre-final year Electronics and Communication Engineering student at NIT Patna specializing in Full-Stack Engineering and Distributed AI Systems. Proven expertise in the MERN stack, real-time communication protocols, and RAG architectures. Highly skilled in algorithmic problem solving (**1650+ LeetCode Rating**) and building scalable, production-ready applications with a focus on data science and cloud infrastructure.

Technical Skills

Programming Languages: Java (DSA), JavaScript (ES6+), Python (AI/ML), SQL
Web Development: React.js , Node.js , Express.js, Redux Toolkit, Socket.io, Tailwind CSS, HTML5/CSS3
AI, ML & Data Science: Scikit-learn, NumPy, Pandas, Matplotlib, RAG Architecture, LangChain, Vector Databases
Infrastructure & Cloud: Oracle Cloud (OCI Certified), Firebase, Git/GitHub, JWT, RESTful APIs, Cloudinary, Render
Core Competencies: Systems Design, Unit Testing (unittest), Data Cleaning, EDA, Geolocation APIs, Real-time Systems

Professional Experience

Deloitte   **April 2025 – June 2025**
Software Development Virtual Intern   *Remote*

- Engineered high-performance Python scripts using **NumPy** and **Pandas** to reconcile and process telemetry data from 50+ industrial IoT devices.
- Developed an automated testing suite with the **unittest** framework, reducing data-processing error rates and debugging time significantly.
- Collaborated in cross-functional virtual teams to analyze large-scale manufacturing datasets and deliver actionable insights.

Featured Projects

Hostel Hungry: Real-time Food Delivery Platform | *MERN, Socket.io, Google Maps API*   **Jan 2026**

- Architected a scalable three-tier ecosystem supporting Customer, Restaurant, and Delivery Partner workflows.
- Implemented real-time bi-directional communication via **Socket.io** for live order tracking and instant notifications.
- Integrated Google Maps and Geolocation APIs to enable automated nearby shop discovery and live rider positioning.
- Secured the delivery lifecycle with Email-based OTP verification and robust JWT authentication.

Enterprise AI Knowledge System (RAG) | *Python, LangChain, Scikit-learn, OCI*   **Oct 2025**

- Developed a high-volume document retrieval system using **RAG (Retrieval-Augmented Generation)** architecture.
- Applied semantic search algorithms and **Scikit-learn** for efficient high-dimensional data retrieval and classification.
- Optimized API response times through refined document chunking and Vector Database (Pinecone/Milvus) integration.
- Deployed on **Oracle Cloud Infrastructure (OCI)** to ensure production-grade scalability and 99.9% reliability.

Achievements & Certifications

- **Competitive Programming:** 1650+ Rating on LeetCode; solved **500+ DSA problems** in Java.
- **NPTEL Joy of Computing using Python:** Scored **92%** (Elite+Gold) in advanced Python programming.
- **NPTEL Cloud Computing:** Scored **90%+** (Elite+Gold) in distributed systems and cloud architecture.
- **OCI Generative AI Professional:** Certified in building and deploying LLM applications on enterprise cloud.

Education

National Institute of Technology (NIT) Patna   **Patna, India**
B.Tech. in Electronics and Communication Engineering (Expected June 2026)

- **Relevant Coursework:** Data Structures, Operating Systems, DBMS, Computer Networks, AI/ML Fundamentals.