

Luxmikant

Aspiring Full - Stack Engineer

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About Me

- Software Development Engineer with strong experience in designing, developing, and deploying scalable applications across the full technology stack.
- Proficient in modern frameworks and tools, with a solid foundation in algorithms, data structures, and system design.
- Adept at building robust, maintainable solutions and collaborating in cross-functional teams to deliver high-quality software products.

Education

VIT Bhopal University, Sehore, MP CGPA: 8.10

B.Tech in Computer Science Engineering
Specialization in Health Informatics

2022–2026

Leadership

- ★ Technical Lead, College Project Team
- ★ Organized technical workshops
- ★ Team Leader, Karnataka Police Datathon
- ★ Research Team Lead, Project Expo

Achievements

- 🏆 Early detection of alzheimer disease using ai research paper publish in springer
- 🏆 Solved 450+ problems on LeetCode
- 🏆 AtCoder Rating - 400
- 🏆 Codeforces - Pupil

Certifications

Certifications:

1. Applied Machine Learning in Python, University of Michigan
2. Data Structures and OOP with C++: CS104, CS105 Masterclass
3. MongoDB Node.js Developer Path
4. MongoDB Database Admin Path (Self-Managed)

Skills

Frontend: React, JavaScript, HTML/CSS, Tailwind CSS, Material-UI, Redux

Backend: C++ (Boost, STL), Python (FastAPI, Flask, Pandas, NumPy, Scikit-Learn), Node.js, Express.js, MongoDB, SQL

Core Skill: DSA, problem solving , computer networks,operating system .

Languages: C++, Python, JavaScript

Soft Skills: Leadership, Communication, Teamwork, Adaptability

Experience

Open Source Contribution: Flamenco Web Configuration Manager

Core Contributor

Jan 25 - present

- Developed a responsive Vue.js configuration interface with Vuex state management that communicates with Flamenco's Go backend via RESTful APIs and WebSocket connections.
- Implemented an MQTT-based communication layer using the MQTT.js client library and Go MQTT broker integration, enabling bi-directional messaging between the manager and distributed worker nodes.
- Engineered a task distribution system using dynamic worker capability matching with Go's concurrent processor pools for optimal parallel rendering task allocation.
- Designed a cron-based worker scheduling system in Go that implements configurable sleep/wake cycles with timezone awareness for global render farm deployments.
- Created a cross-platform path translation layer handling Windows backslashes, Linux forward slashes, and macOS volumes through a unified variable substitution system.
- Built a modular plugin architecture for job types using JavaScript-based compiler scripts that are interpreted by Otto in the Go backend, allowing for customized rendering workflows.

Projects

Healthcare Resource & EHR Optimization Platform

Lead Backend Developer

July 2024– Dec 2024

- Architected and implemented a high-performance backend system using Node.js and Express.js, designing RESTful APIs that reduced resource allocation processing time by 35%.
- Engineered a robust database architecture utilizing PostgreSQL for transactional data and MongoDB for unstructured medical records, optimizing query performance and achieving 25% improved system efficiency.
- Developed scalable microservices using Docker and Kubernetes, implementing service discovery, load balancing, and fault tolerance that improved system uptime by 20% and reduced API latency by 30%.
- Designed comprehensive security architecture with JWT authentication, OAuth2 authorization, AES-256 encryption, and HIPAA-compliant data protocols across multiple database instances and services.

DICOM Image Processing Application

Full-Stack Developer

Jan 2025 – March 2025

- Developed a full-stack Digital Imaging and Communications in Medicine (DICOM) image processing application using Python/Flask backend and React frontend.
- Implemented RESTful API endpoints for secure file uploads, Gaussian filtering, and metadata extraction.
- Engineered a modular architecture for seamless integration of advanced image processing algorithms.
- Integrated Cornerstone.js for enhanced medical image rendering and side-by-side comparisons.
- Designed a responsive Material UI interface to optimize the workflow for radiologists.
- Containerized the application with Docker and Docker Compose to ensure consistent deployment.
- Established efficient storage solutions with optional MongoDB integration for robust metadata management.