Luxmikant

Aspiring Software Development 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.

Education

VIT Bhopal University, MP CGPA: 8.38 B.Tech in Computer Science Engineering Specialization in Health Informatics 2022–2026

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

Leadership

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

Achievements

- **Y** Early detection of alzheimer diease using ai research paper publish in springer
- **Y** Solved 450+ problems on LeetCode
- ▼ Under Top 10 teams in Hack2Byte 2.0 hackathon
- TAtCoder Rating 400
- T Codeforces Pupil

Certifications

- 1. Introduction to Rust Training Ferrous Systems
- 2. Applied Machine Learning in Python, University of Michigan
- 3. Data Structures and OOP with C++: CS104, CS105 Masterclass

Skills

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

Backend: C++ (STL, Boost, Templates)

Rust Programming: Ownership & Borrowing, Lifetimes, Traits, Generics, Pattern Matching, Error Handling, Concurrency, Async (Tokio), Actixweb, , Cargo, Unit Testing, Docker

Languages: C++, Rust,python

Soft Skills: Leadership, Communication, Teamwork, Adaptability

Experience

Open Source Contribution: Flamenco Web Configuration Manager Core Contributor Jan 2025 - present

- Developed responsive Vue.js configuration interface with Vuex state management, integrating RESTful APIs and WebSocket connections to communicate with Go backend, reducing configuration time by 40%.
- Implemented MQTT-based communication layer using MQTT.js client and Go broker integration, enabling real-time bi-directional messaging between manager and 50+ distributed worker nodes with 99.9% uptime.
- Engineered dynamic task distribution system using Go's concurrent processor pools and worker capability matching, achieving 35% improved parallel rendering task allocation efficiency.
- Designed cron-based worker scheduling system in Go with configurable sleep/wake cycles and timezone awareness, optimizing resource utilization across global render farm deployments by 25%.
- Created cross-platform path translation layer handling Windows/Linux/macOS file systems through unified variable substitution, ensuring seamless deployment across heterogeneous environments.

Projects

FinBash - Full-Stack Financial Dashboard

Open Source Contributor

Feb 2025–Present

- Engineered high-performance Rust backend using ownership system and zero-cost abstractions, achieving 40% faster financial calculations with guaranteed memory safety and compile-time error prevention.
- Implemented concurrent architecture processing 500+ CSV records/second using Rust's borrow checker, eliminating data races and null pointer dereferences at compile-time.
- Developed 7 modular components: financial calculator, CSV parser, portfolio tracker, price alerts, async API handlers, CLI interface, and JSON serialization with serde.
- Built async RESTful API with Tokio runtime achieving ¡100ms response times for real-time portfolio updates and concurrent user session handling.
- Integrated full-stack solution connecting Rust backend with React/TypeScript frontend, demonstrating systems programming in modern web architecture.

DICOM Image Processing Application

 $Full\text{-}Stack\ Developer$

Dec 2024 – March 2025

- Architected full-stack DICOM medical imaging platform using Python/Flask and React, processing 1000+ images with 95% filtering accuracy and reducing radiologist workflow time by 30%.
- Engineered modular microservices architecture with secure RESTful APIs, enabling real-time image processing and side-by-side medical image comparisons via Cornerstone.js integration.
- Designed responsive Material UI interface achieving 40% improvement in diagnostic efficiency with intuitive image manipulation tools for healthcare professionals.
- Containerized application using Docker/Docker Compose with MongoDB integration, ensuring HIPAA-compliant deployment across distributed healthcare environments.