Luxmikant
Software Engineer Intern

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Professional Summary

Backend-focused software engineer with expertise in building high-performance distributed systems. **Codeforces Specialist (1496)** with 600+ problems solved. Proficient in Go, C++, and System Design, with a track record of shipping production-grade applications and winning hackathons.

Education

Vellore Institute of Technology   **CGPA: 8.35 — 2022 – 2026**
B.Tech in Computer Science Engineering
Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, System Design, Distributed Systems.

Technical Skills

- **Languages:** C++ (STL, C++20), Go (Goroutines), TypeScript, Python, SQL, JavaScript.
- **Backend & Systems:** REST APIs, gRPC, WebSockets, Kafka, PostgreSQL, Redis, Docker, Azure App Service.
- **Core Concepts:** Distributed Systems, Connection Pooling, CI/CD (GitHub Actions), Unit Testing (pytest).

Projects

Connect4 — Real-Time Multiplayer System   ⓞ GitHub — Live Demo
Tech Stack: Go, TypeScript, React, PostgreSQL, Redis, Apache Kafka, WebSockets.
- **Architected** a low-latency game server using Go, handling 100+ concurrent WebSocket connections with a custom hub pattern to achieve sub-5ms state synchronization.
- **Implemented** an optimized Minimax algorithm with alpha-beta pruning for AI opponents and a server-side validation engine to prevent client-side state manipulation.
- **Engineered** a fault-tolerant analytics pipeline using Apache Kafka and Redis to asynchronously track 10K+ game events without blocking the main game loop.

SharCRM — AI-Powered CRM Platform   ⓞ GitHub — Live Demo
Tech Stack: Node.js, Express, React, MongoDB, Google Gemini API, JWT.
- **Developed** a multi-tenant CRM with advanced customer segmentation, enabling dynamic audience targeting via boolean logic filters (AND/OR).
- **Integrated** Google Gemini AI to automate marketing workflows, generating 3+ tone-optimized message variants per campaign and reducing content creation time by 80%.
- **Designed** a rate-limited REST API handling 100+ req/15min with JWT authentication and Role-Based Access Control (RBAC) for secure data isolation.

VitalFlow — Agentic Hospital Command Center   ⓞ GitHub — Devpost
Tech Stack: Python, Salesforce Apex, Tableau, AI Agents.
- **Built** a real-time Salesforce/Tableau dashboard for patient flow, reducing administrative lag by 30%.
- **Automated** resource allocation via Apex triggers to provide instant AI-driven overcrowding alerts.

Codegiest — ExpertMatch   ⓞ GitHub — Devpost
Tech Stack: JavaScript, Atlassian Forge, Rovo AI.
- **Developed** an Atlassian Forge app that intelligently routes PRs to experts based on git history analysis.
- **Integrated** Rovo AI to enable conversational querying of team metrics directly within Jira workflows.

Achievements

- **Codeforces Specialist (Max Rating: 1496):** Consistent competitive programmer with 600+ algorithmic problems solved.
- **Top 10 Finalist (HackByte 3.0):** Competed against 100+ teams to ship a fully deployed healthcare solution.
- **Published Researcher (Springer Nature):** Co-authored *"Detection of Alzheimer's Disease Using CNNs"*; achieved 92% accuracy on early-stage biomarker detection.

Certifications & Coursework

- **Blockchain Basics — Cyfrin Updraft:** Fundamental concepts of blockchain architecture, smart contracts, and oracle networks.
- **GitHub Foundation Certification:** Proficiency in version control, CI/CD pipelines, and collaboration workflows.
- **Applied Machine Learning (Univ. of Michigan):** End-to-end ML pipeline architecture and model deployment.