

# Luxmikant

Research Intern — 2026 Graduate

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## Professional Summary

Computer Science undergraduate with strong fundamentals in data structures and backend development. Experienced in building and debugging real-time, data-driven applications through personal projects and hackathons. Codeforces Specialist (1496) with hands-on experience in Go, Node.js, PostgreSQL, Redis, and event-driven backend systems.

## Education

### Vellore Institute of Technology

B.Tech in Computer Science Engineering

CGPA: 8.38 — 2022 – 2026

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, System Design (introductory).

## Technical Skills

- **Programming Languages:** C++, Go, JavaScript, TypeScript, Python, SQL.
- **Backend & Databases:** REST APIs, WebSockets, Node.js, Express, PostgreSQL, MongoDB, Redis.
- **Tools & Platforms:** Git, Docker, GitHub Actions, Apache Kafka (basic usage), Azure App Service.
- **Core CS Concepts:** Data Structures, Algorithms, DBMS, Operating Systems.

## Projects

### Connect4 — Real-Time Multiplayer Game

 GitHub — Live Demo

**Tech Stack:** Go, TypeScript, React, PostgreSQL, Redis, Apache Kafka, WebSockets

- Built a real-time multiplayer game server in Go using WebSockets with server-side session and state management.
- Implemented a competitive AI bot using the Minimax algorithm with alpha-beta pruning for optimal move evaluation.
- Wrote 130+ automated test cases covering core game logic, edge cases, and invalid state transitions.
- Fixed a post-game rematch bug caused by premature room teardown by improving state handling WebSocket routing hub layer.
- Designed an event-driven analytics pipeline using Kafka and Redis to process gameplay events asynchronously.

### SharCRM — Multi-Tenant CRM Application

 GitHub — Live Demo

**Tech Stack:** Node.js, Express, React, MongoDB, Google Gemini API, JWT

- Developed a multi-tenant CRM application enabling organizations to securely manage customer data using JWT-based authentication and role-based access control.
- Built REST APIs with rate limiting, validation, and error handling to safely support concurrent client requests.
- Integrated Google Gemini API to generate marketing message drafts, reducing manual effort during campaign creation.

### Codegiest — ExpertMatch (Atlassian Forge App)

 GitHub — Devpost

**Tech Stack:** JavaScript, Atlassian Forge, Jira APIs, Rovo AI

- Developed an Atlassian Forge app that routes pull requests to relevant reviewers based on repository contribution history.
- Implemented backend logic to analyze commit metadata and map domain expertise to appropriate team members.
- Integrated Rovo AI to enable natural language queries for team and project insights directly within Jira workflows.

### VitalFlow — Healthcare Analytics Dashboard

 GitHub — Devpost

**Tech Stack:** Python, Salesforce Apex, Tableau

- Built a Tableau dashboard to visualize real-time patient flow data for hospital operations.
- Automated resource allocation alerts using Salesforce Apex triggers to reduce administrative delays.

## Achievements

- **Codeforces Specialist (Max Rating: 1496):** Solved 600+ algorithmic problems, demonstrating strong problem-solving and DSA fundamentals.
- **Top 10 Finalist (HackByte 3.0):** Selected among 100+ teams for building a deployed healthcare analytics solution.
- **Research Publication (Springer Nature):** Co-authored a CNN-based Alzheimer's detection study achieving 92% accuracy.

## Certifications

- GitHub Foundation Certification
- Applied Machine Learning — University of Michigan