Matada Ajjaiah

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Passionate About Building Scalable AI-Driven Solutions That Solve Real-World Problems

EXPERIENCE

ARCHLYNC

Full Stack Developer (Team lead) **Oct, 2025**

- Led my team in a 24-hour hackathon to build **ArchLync**, a cyber AI assistant, delivering a complete and robust application under tight deadlines through effective leadership with rapid decision-making, and executions.
- **Collaborated** closely with teammates responsible for **testing** and documentation, enabling continuous delivery, smooth progress tracking, and efficient teamwork.

RALA INFOTECH PVT LTD **Remote**

VitalCure (Scrum Master) **December, 2024 - April, 2025**

- Led fully fledged Backend part of an accessible **Hospital Management System**, transforming healthcare workflows through secure, scalable, and user-centric design.
- Built robust backend services, isolated record maintenance, optimized database models, and developed responsive **Business logic interfaces** with **real-time** features and job scheduling.

EDUCATION

PES University, Main Campus, Bangalore **2025-Present**
Bachelor of Technology, Computer Science

Government Polytechnic, Bellary **2022-2025**
Diploma in Computer Science and Engineering – 9.67 CGPA

PROJECTS

CyFlowAI – Cyber Flow AI model trained to intelligently analyze data flow

- Engineered an offline **DeepSearch** AI model trained to perform intelligent data discovery, deep pattern recognition, and anomaly detection across large unstructured datasets using advanced deep learning techniques.
- **Tools Used:** Node, React (Vite), Google Gemini API (flash-2.5), NLP Pipelines, Postman.

Karnaugh Map Solver – An Automated Karnaugh Map solver

- Developed an automated Karnaugh Map (K-Map) solver that performs Boolean minimization using algorithmic grouping, **systematic adjacency analysis** and logic
- **Tools Used:** React, JavaScript (ES6+), Boolean Algebra Optimization Algorithms, Combinational Logic Design, Modular State-Driven UI Architecture.

eCOM – Multi-Model Commerce Platform (Spring boot Application)

- Multi-vendor commerce platform supporting **C2C, B2B, and C2B workflows**, enabling individuals and small producers to sell home-made and locally produced goods directly to consumers and businesses.
- **Tools Used:** Figma, JIRA, React, Spring Boot, Java, MongoDB Atlas, REST APIs, Spring MVC, Maven, Eclipse IDE

VitalCure – Hospital Management System

- Designed and implemented the **backend architecture** for a full-stack Hospital Management System, developing scalable RESTful APIs to handle patient records, appointment scheduling, doctor availability, and secure medical data workflows.
- **Engineered authentication, authorization, and data persistence layers** using JWT-based access control, schema-driven MongoDB models, and optimized query handling to ensure data integrity, security, and high system reliability.
- **Tools Used:** Node.js, Express.js, Mongoose, GridFS, JWT, bcrypt, Cron Jobs, jQuery, REST APIs.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript (ES6+), Java, Shell Scripting (Bash), SQL (MySQL/PL).
- **Core Concepts:** Data Structures & Algorithms (Proficient), Object-Oriented Programming (OOP), MVC Architecture, Database Normalization, SDLC, Agile/Scrum Methodology.
- **Frameworks & Technologies:** React.js (Vite), Node.js, Express.js, Spring Boot, RESTful APIs, Agentic AI, Generative AI.
- **Databases & DevOps:** MySQL, MongoDB, MongoDB Atlas, Docker, Maven, Linux (Ubuntu, Kali), CI/CD Fundamentals.
- **Tools & Engineering Practices:** GitHub, Vercel, Railway, Notion, Postman, Figma, Jira, Draw io, Trello, jQuery, Blender, MIT App Inventor, Scratch.

ACHIEVEMENTS & ADDITIONAL INFORMATION

- **Hackathons/Competitions:**
  - Twinning Program by **SJ Polytechnic Bangalore**, **Ranked Top 3 in our polytechnic**
  - D-CET **Rank 273 in Karnataka**
  - Shortlisted for strong ideology at the highly competitive **HACK-O-WEEN** a 24-hr hackathon, conducted by the Department of AIML, PES University.
- **Certifications:** AWS Security Practices | LibreOffice by IITB | Spring REST by Infosys | TIME MGMT by Infosys
- **Languages:**
  - English (Professional)
  - Kannada (Native)
  - Hindi
  - Telugu
- **Interests:** Open-Source Software, Cricket, Researching, Learning, Teaching, Bug Bounty, Esports.