

MANYAM JAGADEESWAR REDDY

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in LinkedIn | 🐙 GitHub | </> LeetCode

Summary

Full-stack developer with hands-on experience building scalable web applications using **React.js**, **Next.js**, **TypeScript**, **Node.js**, and **Java**. Strong problem-solving skills with a **1519 LeetCode** rating and **440+ problems solved**, demonstrating solid command of **DSA** and **backend fundamentals**. Experienced in building **secure authentication workflows** and **real-time communication systems**.

Education

Indian Institute of Information Technology Dharwad
B.Tech — Data Science and Artificial Intelligence

Expected Graduation: 2027
GPA: 8.21

Projects

NetViz Pro — Reliable Transport Simulator | *Java, Node.js, React, UDP* 📄 Source & Demo

- Developed a custom **Reliable UDP Protocol** implementing **Hybrid Sliding Window ARQ** (combining Go-Back-N and Selective Repeat), achieving **100% data integrity** for binary file transfers including images and PDFs with **checksum validation**.
- Architected a distributed system connecting **Java ARQ engine** with **React dashboard** via **Node.js UDP-to-WebSocket bridge**, enabling **real-time visualization** of packet transmission, ACKs, timeouts, and **dynamic window resizing (1-500 packets)**.
- Implemented **fault-tolerant mechanisms** with **retransmission timers**, **cumulative ACKs**, and **out-of-order packet handling**, maintaining complete delivery under **configurable packet loss (0-100%)** with live throughput monitoring.

devOrbit — AI Bug Intelligence | *Next.js, TypeScript, MongoDB, TailwindCSS* 🔗 Live Link

- Built and deployed a full-stack bug tracking platform using **Next.js**, **TypeScript**, and **MongoDB**, supporting **multi-user team collaboration** with **role-based access control**.
- Implemented secure user authentication system with **JWT token management** and **OAuth 2.0 integration** for Google and GitHub social login options. Integrated **automated bug analysis** using the **Xenova/Transformers library**, enabling severity classification and intelligent bug categorization.

AI-Powered Medical Chatbot | *React.js, Node.js, WebSockets, MongoDB* 📄 Source Code

- Developed a full-stack real-time chat application with **React.js**, **Node.js**, **Express.js**, and **MongoDB**, implementing **WebSocket communication** for instant message delivery.
- Integrated **Google Gemini API** for **AI-powered medical query responses**. Developed and evaluated a **domain-specific LLM** for medical text analysis as a separate experimental model.
- Implemented secure **JWT-based authentication system** with **token refresh mechanism** and optimized **React state management** for real-time conversation handling.

Skills

Languages & Frameworks: Java, C++, JavaScript, TypeScript, Next.js, React.js, Node.js, Express.js, TailwindCSS, HTML, CSS

Core Concepts: Data Structures (DSA), OOP, DBMS, OS, Computer Networks

Tools & Database: Git, GitHub, VS Code, IntelliJ, Postman, MongoDB, Vercel

Key Technologies: WebSockets (Socket.io), JWT, OAuth 2.0, REST APIs

Achievements & Activities

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- **Adobe Hackathon (Jan 2025):** Participated in Round 1, solving complex DSA problems & technical MCQs; Awarded Certificate of Participation.
 - **Competitive Programming:** Solved **440+ LeetCode problems** and achieved a **contest rating of 1519**. Active in **20+ LeetCode** and **17 CodeChef** contests.
 - **Awards:** Earned the **200 Days Badge 2025** on LeetCode for problem-solving consistency.