

MANYAM JAGADEESWAR REDDY

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in LinkedIn Profile | 🐙 Github Profile

Summary

Proactive learner skilled in full-stack development using **React.js, Next.js, Node.js, and TypeScript**. Strong background in **Systems Engineering** and **DSA**, with **409+ LeetCode problems solved** and a **1519 contest rating**. Experienced in building scalable applications with **JWT, OAuth, and Real-time Communication**. Seeking an internship to contribute to impactful engineering projects.

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**

- Engineered a custom **Reliable UDP Protocol** handling **binary file transfers**, sliding window ARQ, and congestion control, simulating TCP reliability mechanics at the byte level.
- Architected a distributed system where a **Java Core** engine streams real-time packet telemetry to a **React Dashboard** via a custom **Node.js/WebSocket** bridge.
- Implemented **Fault Tolerance** (Retransmission Timers, Cumulative ACKs) guaranteeing 100% data integrity during simulated **30% packet loss** conditions.

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

- Developed and deployed a comprehensive bug intelligence and team collaboration platform using **Next.js, TypeScript, and MongoDB**.
- Implemented secure authentication with **JWT and Social OAuth** and constructed core dashboard pages for Teams.
- Designed intuitive user flows for new and existing users and integrated AI-powered bug analysis using **Xenova/Transformers**.

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

- Engineered a full-stack real-time chat application using **React.js, Node.js, Express.js, and MongoDB**.
- Integrated the **Google Gemini API** for high-accuracy production inference, while prototyping a custom-trained medical model for domain-specific fine-tuning.
- Developed a secure backend with **JWT authentication** and optimized frontend state for zero-latency data streams.

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 **409+ 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.
 - **Profiles:** LeetCode: leetcode.com/u/Jagadeeswar_Manyam