

MANGINA SAI KRISHNA

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Education

Aditya Engineering College

September 2022- May 2026

Bachelor of Technology in Information Technology(GPA: 7.79 / 10.00)

Surampalem, Andhra Pradesh

- **Relevant Coursework:** Enhanced C++ algorithms and data structures through coding exercises, group discussions, and competitive programming, while expanding proficiency in C++, Python, and Java through diverse projects and hands-on practice.

Projects

Accommodation Booking Platform | *React.js, MongoDB, Express.js, Node.js*

- Designed and executed a full-stack booking platform modeled after Airbnb, with a 60% backend and 40% frontend split; integrated dynamic search filters and secure payment processing. Achieved 99.9% uptime and boosted booking efficiency by 40%.
- Managed 500+ monthly CRUD operations using MongoDB; optimized queries and indexing to enhance scalability, reduce response time, and ensure high system reliability. Maintained rigorous performance monitoring during peak usage to support seamless data handling.

Hospital Management System | *React.js, MongoDB, Express.js, Node.js*

- Developed a full-stack system to streamline patient and staff administration with real-time scheduling integration. Added 20+ RESTful APIs to improve data retrieval speed by 40% while maintaining 99.9% uptime.
- Implemented robust user authentication with 100% role-based access control, reducing unauthorized access by 95% and ensuring smooth healthcare operations. Leveraged industry-standard encryption and multi-factor authentication to further secure sensitive data.

Real Time Chat Application | *React.js, MongoDB, Express.js, Node.js, Socket.io*

- Built a real-time chat application leveraging React.js and Socket.io for seamless bidirectional communication with multi-room support. Integrated secure user authentication and message persistence to increase user engagement.
- Optimized UI/UX design for enhanced usability and reduced latency; validated through testing with 50+ users, ensuring 99.9% uptime for uninterrupted messaging. Incorporated iterative user feedback to continuously refine interaction and performance.

Technical Skills

Languages: C Programming ,C++,Python,Javascript,SQL

Web Technologies: Html,Css,Git,GitHub

Technologies: React.js, Express.js, Bootstrap, Node.js,MongoDB,Tailwind CSS

Concepts: Operating system, API, Database Normalization, Agile Methodology,Computer Networks,DBMS

Achievements

- Mastered problem-solving with over 600+ programming challenges on GeekForGeeks and Leetcode
- Earned Rewards for consistently solving DSA problems in leetcode.

Certifications

- **[Python Essential-1]** – [Cisco Networking Academy] [↗](#)
- **[Database Management System Part-1]** – [Infosys Springboard] [↗](#)