

SHIVA KUMAR PENUKONDA

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Education

Aditya Engineering College

Bachelor of Technology in Information Technology(CGPA: 8.27 / 10.00)

September 2022- May 2026

Surampalem, Andhra Pradesh

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

Experience

Frontend Developer Intern

Technical Hub | June 2024 - January 2025

Surampalem, Andhra Pradesh

- Developed and deployed modern UIs for **two full-stack projects**, ensuring responsiveness, accessibility, and user-centric design.
- Crafted user-friendly interfaces using **HTML, CSS, JavaScript, and React**
- Implemented efficient **state management** and reusable **component-based architecture** to enhance performance and maintainability.

Projects

Real-Time Chat Application (React.js, Node.js, Express, MongoDB, Socket.IO, Zustand,, JWT)

- Engineered a scalable real-time chat platform using Socket.IO, enabling instant messaging and online presence tracking for over 50 concurrent users with low latency.
- Implemented secure JWT-based authentication and Zustand for global state management, improving session reliability by 40% and reducing auth failures by 35%.
- Designed a responsive front-end with React.js, Node.js, CSS and achieving 95% user satisfaction for seamless accessibility and intuitive user interaction

Rescue Ready (React.js, MongoDB, Express, Node.js, JavaScript, CSS)

- Built a scalable full-stack platform for community safety with real-time disaster alerts, preparedness checklists, and volunteer support, gaining approval from 80% of classmates.
- Integrated geolocation-based emergency services using RESTful NWS and FEMA APIs, reducing response times by 30% and improving data-driven decision-making by 25%.
- Created a responsive front-end with React.js, Node.js, CSS and achieving 95% user satisfaction for seamless accessibility and intuitive user interaction

LostNFound (React.js, MongoDB, Express, Node.js, JavaScript, CSS)

- **Developed and deployed** a college-specific Lost & Found Portal using the MERN stack, enabling students to post, search, and claim lost items with category filters, location-based matching, and ID verification.
- **Optimized** the platform with automatic notifications, claim verification, and admin moderation, enhancing trust and reducing false claims in the lost & found process by 30%.

Technical Skills

- **Languages:** C++, Java, JavaScript, SQL.
- **Web & Backend:** HTML, CSS, RESTful APIs, WebSockets, Node.js, Express.js.
- **Frameworks & Libraries:** React.js, Zustand, Socket.IO, TailwindCSS, DaisyUI.
- **Databases :** MongoDB, MySQL.
- **Tools :** Git, GitHub, Vercel, Render.
- **Auth & Security:** JWT (JSON Web Tokens).
- **Core Concepts:** OOP, Operating Systems, Computer Networks, DBMS.

Certifications

- **JavaScript Essential-1** - Cisco Networking Academy [↗](#)
- **JavaScript Essential-2** - Cisco Networking Academy [↗](#)
- **CCNAv7: Introduction to Networks** - Cisco Networking Academy [↗](#)