

Sandeep Reddy Manda

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Education

- B.Tech in Computer Science & Engineering** 2023 – 2027
Aditya Engineering College, Andhra Pradesh, India
- **Relevant Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, OOPs, Software Engineering.
- Class 12 (CBSE) - SubhNiketan School, Kakinada** 2021 – 2023
- Class 10 (CBSE) - Little Woods School, Kakinada** 2013 – 2021

Projects

- BallotNXT - Biometric Voter Verification System** Aug 2025
- Developed a secure biometric voter verification system using JavaFX + SecuGen SDK to integrated fingerprint and facial recognition using Google Vision API with token-based workflows to ensure privacy and seamless pre-enrollment.
- IoT Appliance Control System** Jan 2025
- Built a MQTT-based Control System using ESP8266, Tasmota, and Home Assistant for smart automation. Enabled Wi-Fi control with relay modules while preserving manual switch use and ensuring electrical safety.
- Smart Attendance Dashboard** Sept 2024 — Present
- Developed a Flask-based portal offering subject-wise analytics and live attendance tracking. Handles an average of 5,000+ daily lookups with secure SQLite storage and ongoing updates (v3.4 as of Aug 2025).
- Mighty Macro - Retail Management System** Feb 2023
- Created a retail management system with Python and Tkinter, featuring cashier billing, customer records, and inventory tracking. Integrated sales reports and charts to analyze stock levels and revenue trends.
- EpicBOT - Multipurpose Discord Bot** Nov 2021
- Built a multipurpose Discord bot with Python and Nextcord.py for moderation, utilities, and customizable server features. Added image manipulation (Pillow) and MySQL for user and server preferences.

Skills

Programming & Scripting: Python, SQL, Bash, C, Java.
Automation & Testing: Selenium.
Databases: MySQL, SQLite.
Web Development: React, React Native, HTML, CSS, JavaScript, Flask.
IoT & Automation: NodeMCU (ESP8266), MQTT, Home Assistant.
Tools & Platforms: Git, GitHub, VS Code, Linux Administration.

Certifications

- **Oracle University** – Java Certified Foundations Associate.
- **Certiport** – IT Specialist – HTML & CSS.
- **Cisco Networking Academy (NETACAD)** – Python Essentials 1, Programming Essentials in C & C++, Operating Systems Basics, HTML/CSS/JS Essentials 1 & 2.
- **Spoken Tutorial Project, IIT Bombay** – Linux Training.
- **Infosys Springboard** – Introduction to NLP/AI/Deep Learning, HTML5, CSS3, JS, Networking and Web Technology.

Internships

- Technical Hub Pvt Ltd Summer Intern – Full Stack Development (React Native)** May 2025 – Jun 2025
- Gained hands-on experience with React Native and full-stack development, implementing responsive HTML/CSS layouts, and developed professional skills with responsibility and a willingness to learn.