Sandeep Reddy Manda

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Education

B.Tech in Computer Science & Engineering   **CGPA: 7.59/10**   *2023 – 2027 (Expected)*
Aditya Engineering College, Andhra Pradesh, India

- **Computer Science Core:** Advanced Data Structures & Algorithms, Operating Systems, Database Management Systems (DBMS), Computer Networks, Automata Theory.
- **Engineering Mathematics:** Probability & Statistics, Differential Equations, Vector Calculus, Discrete Mathematics & Graph Theory, Linear Algebra.
- **Data & Software Theory:** Data Warehousing & Data Mining, Software Engineering, Object-Oriented Analysis and Design (OOAD).

Skills

Languages: Python, Java, C/C++, SQL, Bash, JavaScript (ES6+).
Web & Backend: RESTful APIs, Flask, React Native, React.js, HTML5/CSS3.
Systems & Cloud: Linux Administration (RHCSA), AWS (Cloud Foundations), Docker, GitHub Actions.
Databases & Automation: MySQL, SQLite, MongoDB, Selenium Testing.

Experience

Full Stack Intern (React Native)   *May 2025 – June 2025*
Technical Hub Pvt Ltd, Andhra Pradesh, India

- **Engineering Principles:** Engineered responsive mobile layouts using **React Native**, ensuring 100% cross-device consistency via Flexbox and media queries.
- **Technical Implementation:** Optimized frontend maintainability and performance by building reusable UI components and modular styling libraries in React Native.
- **Collaboration:** Contributed to a fast-paced team environment using **Agile/Scrum** methodologies to adopt modern UI/UX methods and version control best practices.

Projects

WheelRiot - Online E-Commerce Platform — 🔗 live ☑   *Dec 2025 - Mar 2026*

- **Full Stack Development**: Built a high-performance e-commerce platform using the MERN stack (MongoDB, Express.js, React, Node.js) to manage a physical store business online.
- **Payment & Logistics Integration**: Implemented secure financial transactions by integrating the Razorpay API and automating supply chain workflows through Shiprocket for real-time shipping management.
- **State Management & UI**: Developed a responsive frontend with React.js, focusing on dynamic product filtering and a seamless user checkout experience.
- **Backend Architecture**: Designed a scalable RESTful API with Node.js and Express.js, utilizing MVC architecture for clean separation of requests and efficient database indexing in MongoDB.
- **Tech Stack**: MongoDB, Express.js, React.js, Node.js, Razorpay API, Shiprocket API.

BallotNXT - Biometric Voter Verification System — 🔗 live ☑   *Aug 2025*

- **Core Development**: Developed a secure biometric verification interface as a native Windows application using JavaFX and SecuGen SDK for multi-modal recognition.
- **System Architecture**: Designed a hybrid backend using IPC to bridge Flask web services with Java-based biometric drivers; integrated **Google Vision AI** for facial recognition and keypoint normalization.
- **Security & Data**: Enhanced system integrity by implementing a state-aware transaction system with unique UUIDs and token-based security; utilized **MySQL** for persistent and secure data management.

- **Tech Stack**: Python (Flask), Java (JavaFX), Google Vision AI, MySQL, SecuGen SDK.

Smart Attendance Dashboard — 🔗 live 🔗   *Sept 2024 – Present*
- **Analytics Portal**: Developed a Flask-based portal currently serving 10,000+ daily lookups, providing comprehensive subject-wise tracking and performance analytics.
- **Optimization & Privacy**: Scaling the system (v3.4) for high-performance data handling while implementing **Bcrypt** for secure credential hashing to ensure student data privacy.
- **Tech Stack**: Python, Flask, HTML/CSS/JS, SQLite, Bcrypt.

Mighty Macro - Retail Management System   *Nov 2022 – Jan 2023*
- **Software Engineering**: Engineered a robust Windows desktop application using Python and Tkinter to streamline cashier billing workflows and real-time inventory lifecycle management.
- **Data Visualization**: Built analytical dashboards to identify revenue trends and optimize stock levels using Matplotlib for data visualization.
- **Database Management**: Implemented a MySQL backend for persistent transaction history and the management of secure, comprehensive customer records.
- **Tech Stack**: Python (Tkinter), MySQL, Matplotlib.

Certifications

- **System Administration & Cloud**
  - Red Hat Certified System Administrator (RHCSA) - Red Hat
  - AWS Academy Graduate: Cloud Foundations - AWS Academy
  - Linux Training - Spoken Tutorial Project, IIT Bombay
  - Foundation of Cloud IoT Edge ML - NPTEL, IIT Kanpur
  - Operating Systems Basics - Cisco Networking Academy

- **Software Engineering & Design**
  - Java Certified Foundations Associate - Oracle University
  - Software Architecture & Design Series - LinkedIn Learning: UML Modeling, Object-Oriented Design (OOD), and SDLC.
  - Programming Essentials in C & C++ - Cisco Networking Academy
  - Computer Network & Internet Security - Infosys Springboard

- **Data-Driven Development & Web Technologies**
  - Python Essentials 1 - Cisco Networking Academy
  - IT Specialist: HTML and CSS - Certiport
  - HTML/CSS/JS Essentials 1 & 2 - Cisco Networking Academy