

# MONALA DEERAJ

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## EDUCATION

**SR University, Warangal**

**Oct 2022 – May 2026**

**B.Tech – Computer Science Engineering** — **CGPA: 8.2/10.0**

**Warangal, Telangana**

- **Relevant Courses:** Data Structures, Algorithms, DBMS, Operating Systems, Computer Networks, Software Engineering
- Consistent 8+ CGPA performance demonstrating strong foundation in computer science fundamentals

## TECHNICAL SKILLS

**Programming Languages:** Python

**Web Technologies:** HTML5, CSS3, JavaScript

**Databases:** MySQL

**Tools & Technologies:** Git, GitHub, VS Code

**Core Concepts:** Object-Oriented Programming, Software Engineering

## PROJECTS

**SecureChatGUI**

**Python, GUI, Security Protocols**

[GitHub Repository](#)

- Developed secure messaging application with 256-bit encryption supporting 10+ concurrent users
- Designed user interface with real-time messaging and authentication system, reducing login time by 40%
- Applied socket programming achieving 99% message delivery success rate

**Employee Management System**

**Python, JSON, Authentication**

[GitHub Repository](#)

- Developed console-based employee management application with role-based authentication for admin/user access levels
- Implemented full CRUD operations with JSON file storage, auto-generated unique employee IDs, and data persistence
- Engineered modular architecture with separate classes for employee data handling, file operations, and CLI interface
- Integrated input validation and confirmation prompts for critical operations ensuring data integrity and user experience

**Real-Time File Sharing Chat Application**

**React, Node.js, Socket.IO**

[GitHub Repository](#)

- Created scalable real-time chat platform with React frontend and Node.js Express backend, successfully handling 50+ simultaneous users
- Leveraged Socket.IO for instant bidirectional messaging with optimized architecture delivering sub-100ms response times and 15+ modular components
- Delivered comprehensive communication suite featuring private messaging, seamless file sharing capabilities, live user presence, and real-time typing notifications

## ACHIEVEMENTS & LEADERSHIP

- **Semi-Finalist — ANVESHAN 2024 – South Zone Student Research Convention** — Presented research project in Social Sciences category; selected from over 130 projects submitted by 35+ universities. Event organized by MSRUAS and Association of Indian Universities (AIU)
- **5th Place — Internal Hackathon, SR University** — Secured 5th position out of 100+ teams in 24-hour coding competition by developing functional software application with team of 4 members

## CERTIFICATIONS

- **Azure AI Fundamentals (Microsoft Certified):** Demonstrated knowledge of core AI and machine learning concepts and how they are implemented using Microsoft Azure services
- **NPTEL:** Theory of Computation – Algorithms, automata theory, and computational complexity
- **Coursera:** Data Structures and Algorithms Specialization (UC San Diego), Introduction to Web Development with HTML, CSS, JavaScript (IBM)