SASI MANIKANTA PANDULA

+91 8008952497 manikantasasi62@gmail.com LinkedIn GitHub

OBJECTIVE

"To obtain a challenging position as a Software Engineer where I can utilize my academic knowledge, programming skills, and passion for technology to contribute to the success of a forward-thinking organization, while continuously learning and growing in a dynamic professional environment.

EDUCATION

B.Tech in Electronics and Communication Engineering **2020 – 2024**
Chalapathi Institute of Engineering and Technology, Guntur
CGPA: 6.83/10

Intermediate (MPC) **2018 – 2020**
Narayana Junior College, Guntur
CGPA: 8.29/10

SSC **2017 – 2018**
Sri Vijetha High School, Guntur
CGPA: 8.8/10

SKILLS

Programming Languages	Python, Java, HTML, CSS
Frameworks/Libraries	Spring/Springboot
Databases	MySQL
Developer Tools	Pandas, Numpy, Scikit-learn, Git/Github, Ecllipse ,VS Code
Certifications	Cloud Computing Certification (NPTEL), Soft Skills Certification (NPTEL), Python Programming-(DevelopTree)

PROJECTS

Employee Management System **[Java, SQL, HTML]**
A desktop-based application designed to streamline employee record handling and administrative tasks.

- Developed CRUD (Home, Register, Login, Show, Update, Search) operations for managing employee records using Java and MySQL.
- Designed a simple front-end interface using HTML integrated with backend logic.
- Enabled secure data storage and retrieval using SQL queries with proper constraints.

Design of Intelligent Ambulance and Traffic Control System using Raspberry Pi [IoT, Python, Raspberry Pi]
A smart system to prioritize ambulance movement through traffic by automating signal control using IoT components.

- Utilized Raspberry Pi to detect emergency vehicles and communicate with traffic signals via RF communication.
- Implemented real-time vehicle tracking and signal override mechanisms to reduce response time in emergencies.
- Programmed signal control logic using Python scripts interfaced with sensors and actuators.
- Improved emergency response efficiency by automating priority-based traffic signal switching.

INTERNSHIP

Cybersecurity Virtual Internship **Supported by AICTE**

- Completed a structured cybersecurity training program focused on system vulnerabilities, threat mitigation, and secure computing practices.
- Gained hands-on experience in ethical hacking, network security, malware analysis, and incident response.
- Learned to use cybersecurity tools such as Wireshark, Nmap, Burp Suite, and basic Linux command-line utilities for security auditing.
- Explored topics like cryptography, phishing detection, firewalls, and intrusion detection systems (IDS).

Embedded Systems Virtual Internship **Supported by AICTE**

- Gained hands-on experience in embedded systems development using microcontrollers such as Arduino and Raspberry Pi.
- Worked with C/C++ to program hardware components including sensors, actuators, and communication modules.
- Learned to design, debug, and test real-time embedded applications for automation and IoT use cases.
- Developed a mini-project involving sensor data acquisition and control system logic.