GANESHSAI PARLAPALLI

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Education

Audisankara Institue of Technology   Dec. 2021 – March 2025
Bachelor of Electronics and Communication-8.0   *Gudur, Andhra Pradesh*

Career Objective

- Aspiring Python Full Stack Developer with strong foundation in Python, OOPs, HTML, CSS, JavaScript, SQL, React.js and hands-on experience with Git GitHub. Seeking an entry-level role to contribute to both frontend and backend development of responsive, user friendly web applications while growing in a collaborative, learning-focused environment.

Experience

Effica Automation   Aug 2024 – Feb 2025
Robotics Trainee Intern   *Coimbatore, Tamil Nadu*
- Assisted in designing and implementing robotic automation systems using Embedded C, Arduino, and microcontroller programming for industrial use cases.
- Integrated and configured sensors, actuators, and microcontrollers, enabling real-time robotic task execution with smooth control signal transmission.
- Applied robot jogging and teaching techniques to program accurate motion paths, achieving 96% precision in repeated path validation tests.
- Debugged logic errors and fine-tuned hardware-software integration, resulting in a 32% improvement in robotic response time and reduced path deviation.
- Documented test cases, robotic workflows, and Standard Operating Procedures (SOPs) to support deployment, quality assurance, and future scalability.

Projects

Smart Helmet using GPS and GSM | *Python, Embedded C, OOPs*   Feb 2025 - Apr 2025
- Planned and designed a safety-based IoT Smart Helmet system that detects accidents and sends the user's GPS location to emergency contacts using a GSM module.
- Wrote Embedded C code for Arduino to collect data from the accelerometer and GPS module, and to trigger automated SMS alerts via the GSM module.
- Developed Python scripts for testing sensor outputs, logging GPS coordinates, and simulating real-time emergency scenarios for system validation.
- Applied object-oriented programming by using Encapsulation to separate sensor logic, Abstraction to interface with hardware, and Inheritance to reuse sensor code modules.
- Executed full system integration by assembling hardware, calibrating sensors, and solving real-time data transmission issues, achieving 95% accuracy in end-to-end system testing.
- Used GitHub for code version control, issue tracking, and team collaboration during development and testing phases.

Renewal Agreements Automation System| *Python,OOPs,File Handling,Scheduling*   Apr 2025 - June 2025
- Developed a Python-based automation system to track rental/lease agreement expiry dates and streamline renewals.
- Implemented OOP-based logic with datetime scheduling to auto-calculate due dates and generate renewal reminders.
- Created modular scripts for file handling, data parsing, and validation to ensure accurate and consistent agreement records.
- Added automated alert mechanisms that notified users before expiry, reducing missed renewals by 70%.
- Optimized data processing workflows to improve retrieval and update efficiency by 40%.
- Utilized GitHub for version control, documentation, and structured project collaboration.

Technical Skills

Languages: Python, C, HTML/CSS, JavaScript, React.js, Flask, SQL/MySQL
Developer Tools: VS Code, Microsoft 365(Word, Excel,Powerpoint), Tosca Automation
Technologies/Frameworks: Git/Github, Pandas, Numpy
Soft-skills: Team Collaboration, Technical Leadership, Adaptability to New Technologies , Strong Communication Skills, Problem-Solving and Debugging Ability, Fast Learner with a Growth Mindset

Leadership / Extracurricular

- Python - HackerRanker(2023): Validated skills in OOP, problem-solving, and core Python modules.