KARTHIKEYAN S

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OBJECTIVE

A hard-working individual looking for a challenging position where I can showcase my skills and contribute to the growth of the organization.

EDUCATION

Qualification	Institution	Year	Percentage
B.Tech (Robotics and Automation)	JAIN University, Bengaluru	2023	86%
Diploma (Mechatronics)	JSS Polytechnic, Mysuru	2020	92.34%
SSLC	Nirmala High School, Mysuru	2017	93.44%

EXPERIENCE

- **Software Engineering Intern**
  Veda Vijnaana Vishtaram, Mysore, Karnataka
  May 2024 – Present
  - Developed and maintained backend systems using Python, Django, and FastAPI as part of the team.
  - Created responsive and dynamic frontend interfaces using HTML, CSS, JavaScript, Bootstrap, and React.
  - Utilized Postman for testing and debugging APIs, ensuring robust and reliable backend services.
  - Collaborated with cross-functional teams to design and deploy web applications, ensuring alignment with business objectives and user needs.
  - Participated in code reviews, debugging, and testing to ensure high-quality software.
  - Contributed to the full software development lifecycle from planning to deployment, including defining project requirements and timelines.

- **Data Analytics Intern**
  Trainity, Rajasthan
  March 2023 – June 2023
  - Analyzed large datasets to extract meaningful insights and trends.
  - Utilized data visualization tools to present findings and support business decision-making.

- **IoT Intern**
  Emertxe Information Technologies, Bengaluru
  March 2023 – May 2023
  - Developed home automation solutions using microcontrollers and sensors.
  - Implemented and tested communication protocols for effective device control and data transmission.

ACADEMIC PROJECTS

IoT Based Smart Refrigerator for Food Management System
- Designed and implemented a smart refrigerator system leveraging load cells, image processing, and IoT technologies to monitor item weights, egg counts, humidity, temperature, and food freshness, enhancing user convenience and reducing food waste.
- An interface allowing users to remotely monitor refrigerator contents, receive alerts for low stock or spoiled items, and receive recipe suggestions based on available ingredients, promoting efficient inventory management and reducing food waste.
- Tool: Arduino IDE, VS Code, Blynk IoT, Roboflow, VNC Viewer

Pothole Detecting and Rectifying Robot
- Developed a robotic system to detect and repair potholes using sensors to identify road imperfections and servo motors to dispense sand, enhancing road safety by addressing the primary cause of accidents.
- Implemented navigation and communication systems to guide the robot and provide real-time feedback to operators, facilitating efficient maintenance of road infrastructure and minimizing accident occurrences
- Tool: Arduino IDE, Blynk IoT

Alcohol Detection Engine Locking System
- Designed and automated the Alcohol detection system in vehicle for avoiding accident.
- Designed and developed the prototype using Arduino IDE for analysis and commanding the sensors.
- Tool: Arduino IDE

SKILLS

- **Programming Languages**: Python, JavaScript, C Programming, SQL
- **Web Development**: HTML, CSS, React, Django, FastAPI, Bootstrap
- **Data Analytics**: Tableau, Power BI
- **Tools**: Postman, VS Code, MS Office, PLC, Arduino IDE

CERTIFICATION

- **HTML5 and CSS3**
  - Completed a certification course in HTML5 and CSS3, gaining proficiency in creating responsive and modern web designs.
- **Data Analytics**
  - Completed a data analytics course with certification, covering statistical analysis, data visualization, and predictive modeling using Excel, Tableau, Python and SQL.
- **Mechatronics**
  - Certification in designing and building mechatronic systems.

ACHIEVEMENTS

- Best Paper Award - Third National Conference (NCTOPP-2022) conducted by New Horizon College of Engineering
- National Cadet Corps (NCC) – 'C' Certificate with rank Sergeant.

DECLARATION

I hereby declare that the above mentioned are true to the best of my knowledge and belief.