ANUSHA KALAM

Software Developer

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A Software Developer with 1+ years of experience in embedded system to seek and maintain full-time position that offers professional challenges utilizing interpersonal skills, excellent time management and problem-solving skills.

Programming Languages

- Python
- C (Programming Language)

Operating Systems

- Ubuntu
- Windows
- RTOS

Tools

- Visual Studio
- Google Colab
- Jupyter Notebook
- STM Cube IDE
- JTAG Debugger
- Putty
- git

Key Skills

- Good communication skills
- Good problem solving skills
- Good knowledge of micro-controller and Embedded devices
- Automation using Python Scripts
- Implementing Machine Learning Algorithms
- Bare Metal programming
- Programming using RTOS
- Familiar with I2C, SPI and UART protocols

Work History

2022-11 - Current

Software Developer

Leadsoc Technologies, Bangalore

Project 1 : Face Recognition with Tensorflow using Raspberry Pi

Description :

- The project aimed at developing a real-time facial recognition solution with a focus on efficiency and accuracy
- Implemented a robust Face Recognition system utilizing TensorFlow Lite and Google Colab for model training and testing and deployed it in Rapsberry Pi Board.

Roles & Responsibilities :

- **Model Development :** Developed and optimized a TensorFlow Lite-based deep learning model for real-time face recognition.
- **Data Preprocessing :** Conducted preprocessing, including face alignment and normalization, ensuring high-quality training datasets.
- **Training and Testing :** Utilized Google Colab's GPU resources for efficient model training and conducted rigorous testing on diverse datasets.
- **Performance Optimization :** Enhanced model inference speed for real-time applications on edge devices through optimization techniques.
- **Documentation and Reporting :** Maintained detailed documentation and generated reports summarizing project progress, challenges, and solutions.

Sw/Hw Tools Used :

- Visual Studio
- Google Colab
- Tensorflow lib
- Raspberry Pi 4 Board
- I2C camera
- Ubuntu
- Python scripts

Project 2 : Automated Violation fixes and reporting concerns at power planning stage of physical design.

Description :

- Implemented an automated solution for fixing violations and reporting concerns during the power planning stage of physical design.
- The project aimed to streamline the power planning process, ensuring compliance with design specifications and optimizing power consumption.

Roles & Responsibilities :

- **Input Processing:** Efficiently managed input files for streamlined project initiation.
- **Log File Generation:** Implemented a robust logging system to capture project details for analysis.
- **Log Parsing:** Developed algorithms to extract key information, identifying warnings and errors.
- **Issue Identification:** Systematically flagged and categorized warnings and errors for further analysis.
- **Reporting Mechanism:** Created detailed reports to facilitate quick decision-making and issue resolution.

Sw/Hw Tools Used :

- Visual Studio

- VNC server
- ICC2_Shell
- gvim
- nedit

Education

2020-06 - 2022-11

Master of Technology: Computer Science And Engineering

University College of Engineering Kakinada (UCEK) - Kakinada

2016-07 - 2020-09

Bachelor of Technology: Computer Science And Engineering

Vikas Group of Institutions - Vijayawada