P Giri Kishore

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EXPERIENCE

Quest Global
Bangalore, Karnataka
Software Engineer
Aug. 2020 - Present

- Designed features and fixed defects for an autonomous Metro rail product by Alstom Transport, with Safety Integrity Level (SIL) 4. This product is currently in revenue service across 25 countries.
- Gathered requirements, designed, and developed an end-to-end full-stack desktop application, using PyQt5 framework, that automates the generation of various configuration files for the rail product. This application halved the development time of these configuration files.
- Designed an algorithm that would perform a set of 20 safety critical checks that a train module has to pass before moving to the next station.
- Developed a generic Finite State Machine library, that registers rail objects like trains, stations, signals, switches, etc., and validates each transition and provides the exact state of these objects.
- Proposed and developed a software prototype that is estimated to save $48,000 each year by expediting engineering testing processes. Approved by clients and is currently being implemented on large scale.
- Spearheading over 50 engineers in a 'White Paper Initiative' that aims to produce next-gen rail solutions

Quest Global
Bangalore, Karnataka
Student Project Intern
Jan. 2020 - May 2020

- Researched various optical character recognition techniques and developed an intelligent character recognition system using deep learning algorithms to digitally document old handwritten documents.
- Pre-processed dataset, developed an AI model, post-processed data and developed a GUI.

PROJECTS

- **Audacity:** Fixed batch processing issues in an open source audio editing software used by over 100 million users.
- **Intelligent Character Recognition:** A deep learning based application, that inputs an image with handwritten text and converts to computer readable text. Characters are detected using computer vision techniques and this is passed into a CNN model for classification. A spell checker module is integrated to improve the accuracy of the system.
- **Split- Manage your bills:** An android application that aims at splitting expenses among groups of friends, colleagues, or roommates by creating a group and adding all the costs. This app uses Google's Firebase for authentication and database. This application also has a dine-in-friendly GUI to split bills up to ten members.
- **IOT Rail Signaling System:** An IOT-based rail signalling project in which lego trains are controlled by Raspberry Pi, Hall Sensors and motors. A Qt-based GUI application to show the movement of trains along the tracks.

SKILLS

- Problem Solving, Data Structures and Algorithms
- **Languages:** Proficient: C, C++, Python Familiar: Java, SQL, HTML.
- **Databases:** Proficient: MySQL Familiar: Firebase.
- **Technologies:** Proficient: Git/Gerrit, Qt, RTC, Innovator, Dimensions Familiar: Tensorflow, OpenCV.

AWARDS AND ACTIVITIES

- **ICIREMS Conference**: Published and won the "Best Paper Award" over 100 participants. (Link to journal)
- **SAP IIOT 24-hour Hackathon**: Secured 2nd position.
- **Quest Global Hackathon**: Secured 1st position
- **Mini Project Competition**: Runners up in the Android Mini Project Competition held during my 7th semester.
- **Event Management**: Part of the executive planning committee in the Top Thirty Technologies @ 2030 event.
- **Competitive Programming**: Rank 1 in Hackerrank for C programming. Solved 240+ problems on Leetcode.

EDUCATION

New Horizon College of Engineering
Bangalore, Karnataka
*Bachelor of Engineering in Computer Science and Engineering; **CGPA: 9.23/10***
Aug. 2016 - Aug. 2020

COURSE AND CERTIFICATES

- Deep Learning Specialization (5 Courses) on Coursera
- Python for Data Science on NPTEL