Karun Kanda

kkanda900@gmail.com | (732)-543-4427 | kkanda900.github.io

EDUCATION

Rutgers University - New Brunswick   *Expected Grad: May, 2022*

B. S. - Computer Science (GPA: 3.064)

Relevant Coursework: Data Structures, Computer Architecture, Principles of Information and Data Management, Systems Programming, Design and Analysis of Algorithms and Software Methodology

Extracurriculars: Rutgers IEEE VexU Division (Programming Lead)

WORK EXPERIENCE

Cyber-Physical Systems Laboratory   June 2019 - Present

Research Software Engineer (Part-time)   Piscataway, NJ

– I worked on the software end of the laboratory research submarine robot creating python scripts to complete the necessary tasks for the project such as GPS autonomous movement and object detection to spot pollution in any body of water.

– I worked on creating a IoT setup between many nodes (i.e: multiple Raspberry Pis, Buoys, etc) can connect together to communicate information to each other in real-time.

– I develop real-time efficient programs to run on low-end hardware such as the Raspberry Pi.

PROJECTS

L.I.C.O.T

– A graphical user interface based on IoT to communicate between multiple nodes underwater of locations where there is pollution.

– Built using LabView and Python.

AI.

– AI, short for Alfred, is a virtual assistant based on the helpful character Alfred from the Batman series that helps you with everyday tasks that a typical voice assistant cannot help you with.

– Built using Python, ElectronJS, and Google Speech Recognition.

PassApp

– A password storage/generator app that uniquely provides a strong secure password based on Huffman tree algorithm.

– Users have the ability to send passwords safely using RSA encryption/decryption algorithm.

SKILLS

Languages Java, Python, C/C++, HTML, CSS, JavaScript and MatLab.

Frameworks: MongoDB, SQL-mySQL, Tensorflow, OpenCV, ElectronJS, ReactJS, and Flutter.

Tools: AWS Development, Google API, Linux-Debian, Git, PyQt designer, and Labview.

AWARDS

IEEE ComSoc 2019 - 1st   First place in a global research competition part of the IEEE organization.   2019

 /kkanda900   /in/karunkanda   /kandak900