Curriculum Vitae

Jaiaid Mobin

Contact Inforamtion

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- **Present address :** House#20, Rd#24, Sec-7, Uttara, Dhaka-1230, Bangladesh
- **Personal Website :** https://jaiaid.github.io/

Github Link

https://github.com/Jaiaid

Professional Project Work

- **Device Control Based on Computer Vision**
  - Implemented object detection system in **C++** using **OpenVINO** sdk for **Windows10** based application
  - Implemented relay control over tcp in **C++** using windows networking library and knowledge from the relay documentation
  - Developed custom algorithms to do particular object detection based on application use case and showed their effectiveness using client provided dataset

- **Smartphone User Detection**
  - Collected Data and trained machine learning model inspired from a given paper in **Python3.6** using **numpy, scikit-learn** package
  - Implemented simple communication over http protocol locally to connect front end code and backend ml inference using **flask, json** packege

- **Content Based http/https Traffic Filtering**
  - Implemented local cache in **C++** using **sqlite** library in **Windows** client PC(**Windows10**)) application
  - Written simple **javascript** for browser based control panel of client PC application

Academic Project Work

- **Sign Language Translator :**
  - Implemented gravity corrected gyroscope and acceleremeter value reading system from **MPU6050** breakout board using https://github.com/jrowberg/i2cdevlib/tree/master/Arduino/MPU6050 library to interface with Arduino
  - Created a representation of the needed movement to indicate 17 signs

- **Obstacle Detection and Surface plotter :**
  - Written code for a depth measurement system using **HC-SR04** sonar sensor controlled by ATmega32 microcontroller
  - Implemented a plotting mechainsm on 12864ZW lcd screen to depict the 2d surface topology

- **A Cineplex Management Web Application**
  - Written backend code in **php5 on Laravel4**
  - Database implementation for **Mysql** DBMS

Education

•**B.Sc. in Computer Science and Engineering**   Dept. of Computer Science and Engineering, Bangladesh University of Engineering and Technology (BUET).
Graduation Year - 2017, CGPA - 3.57

Publication

- A heuristic aided Stochastic Beam Search for solving transit network design problem
  - https://www.sciencedirect.com/science/article/abs/pii/S2210650218302414
- Reference-free Association Mapping from Sequencing Reads Using k-mers
  - https://bio-protocol.org/e3815

Accomplishments

- Bangladesh-Japan Engineers Training Program(BJET) 2nd batch (March,2018-May,2018)
- ITEE FE exam March 2018 Top Scorer among ITPEC countries (Examinee no FE01-0081)
- Achived 331 out of 340(reasoning aprt) and 3 out of 6(analytical part) in GRE on Nov 25, 2019

Reference

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