

# Curriculum Vitae

## Jaiaid Mobin

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### About Me

I am working as a senior software engineer in BJIT Ltd. I have worked in developing computer vision and deep learning based solution for client project. Currently working in PC application development.

### Contact Information

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- **Personal Website :** <https://jaiaid.github.io/>

### Links

Github <https://github.com/Jaiaid>

Publications [Google Scholar](#)

Linkedin [link](#)

### Professional Project Work

- **Directshow Source Filter Development**
  - Repurpose code from existing MIT licensed project to create a source filter
  - Analyzed requirement of our project and capabilities of directshow source filter to report what is feasible and accordingly influenced application architecture
  - Implemented simple IPC mechanism to facilitate communication between COM component and application
- **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** package
- **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 accelerometer value reading system from **MPU6050** break-out 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 mechanism 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**

## Other tools I am familiar with...

- **Programming language :** Java, javascript
- **Framework :** Codeigniter, Laravel5
- **H/W Development Platform :** Raspberry PI,
- **Build system and Deployment tools :** Make, Docker

## 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

## Work Experience

- Software Engineer
  - BJIT Ltd., from July,2018 - October,2020
- Senior Software Engineer
  - BJIT Ltd., from November,2020 - Present

## 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)
- Achieved 331 out of 340(reasoning part) and 3 out of 6(analytical part) in GRE on Nov 25, 2019