SYED FAHIM AHMED

Software Engineer – ILCT Research Institute Inc.
(+81)-70-4001-4569 • fahimdbolt@gmail.com
https://syedfahimahmed.github.io/ • syed-fahim-ahmed
syedfahimahmed

EDUCATION

Ahsanullah University of Science & Technology **Dhaka, Bangladesh**
B.Sc in Computer Science and Engineering *June 2015 - July 2019*
GPA: 3.65/4.00 (11th among 152 students)

WORK EXPERIENCE

ILCT Research Institute Inc. **Fukuoka, Japan**
Software Engineer, Department of IT *July 2020 - present*

- Developed full-stack web applications across various platforms using latest industry-adopted technologies and frameworks
- Integrated Computer Vision, Machine Learning and IoT to the developed projects to reduce COVID-19 risks.
- Implemented SIP based technologies in server side, analyzed network protocols, and troubleshooted VoIP Phone System
- Conducted web design workshops designed for high school students

Nelsite Inc. Ltd. **Fukuoka, Japan**
Software Engineer, Department of IT *February 2020 - June 2020*

- Built a full-stack web application to improve customer service performance by 10%
- Utilized voice bio-metric system for automating hospital environment
- Designed optimized database structure for faster data loading and fetching

RESEARCH INTEREST

Machine Learning, Deep Learning, Computer Vision, IoT.

PUBLICATIONS

- **Syed Fahim Ahmed**, Fairuz Shezuti Rahman, Tasmia Tabassum, Md. Tariqul Islam Bhuiyan, **"3D U-Net: Fully Convolutional Neural Network for Automatic Brain Tumor Segmentation"**, 2019 22nd International Conference on Computer and Information Technology (ICCIT 2019), Dhaka, Bangladesh, DOI: 10.1109/ICCIT48885.2019.9038237

TECHNICAL SKILLS

Programming	Python, C, C++, Java
Web Development	HTML5, CSS3, JavaScript, Ajax, jQuery, React, Node.js, PHP, Laravel
DBMS	Oracle, MySQL, Microsoft SQL Server, PostgreSQL
Computer Vision	OpenCV, MATLAB
Machine Learning	Keras, TensorFlow 2.0
Hardware	Arduino, Raspberry Pi
SIP Server	Asterisk, Kamailio, Flexisip
OS	Linux, Windows
Version Control	Git
DevOps	Docker

PROFESSIONAL PROJECTS

VoIP Phone System *May 2021 - December 2021*

- The IP phone system allows users make phone calls through your internet connection instead of a regular landline.
- The system provides advanced functions i.e priority call, attended transfer, absence transfer, secretary call, hotline, etc. to the users.
- Tools: Asterisk, Kamailio, Drachtio, Flexisip, PJSUA, Node.js.

Ohori Koen Kindergarten Management System *January 2021 - April 2021*

- This web application was developed to manage daily activities of the children in the kindergarten
- It assists both teachers and parents to check previous, current health of the children with user-friendly interfaces.
- Tools: Laravel, React, PostgreSQL.

Kyushu Corp. Attendance System *July 2020 – December 2020*

- The structure is consisted of IoT-enabled real-time face recognition (FaceNet) system, IC card reading system, and a web server.
- The previous system was modified to reduce COVID-19 risks in the company.
- Tools: CodeIgniter, Bootstrap, Javascript, PostgreSQL, Python, OpenCV, TensorFlow, Vega3000, Vega5000, Raspberry Pi.

FAQ System *May 2020 – June 2020*

- The web application can be integrated to industrial websites to enhance customer service administration.
- It assists customer service's person in charge with statistical data and provides customers with dynamic search option to find their desired QA.
- Tools: Laravel, Bootstrap, Javascript, Ajax, jQuery, Chart.js, MySQL.

Nursing Assistant System (Speaker Identification, Database) *February 2020 – March 2020*

- This system automate the working environment for the nurses in the hospital.
- I mainly contributed to the project by building speaker identification model using SincNet and designing a relational database.
- Tools: PyTorch, MySQL.

SELECTED ACADEMIC PROJECTS

Skin Disease Detection *Fall 2018*

- The main goal of the project is to detect infectious external skin diseases using Digital Image Processing algorithm.
- Tools: MATLAB.

Diabetes Risk Prediction Based on Characteristics *Fall 2018*

- This research finds out pattern risk and human traits in our university students' dataset applying Logistic Regression and K-mean Clustering.
- The patterns were presented in various charts.
- Tools: Python, Numpy, Panda, Matplotlib, Scikit-learn.

Pregnancy HealthCare 24/7 *Fall 2018*

- An android app to make the child-bearing time of pregnant women joyful and convenient.
- This app was first developed during a hackathon and secured 2nd prize in it.
- Tools: Android Studio, SQLite.

Home Security Management System *Fall 2017*

- A high quality security system with camera surveillance, automatic lock, sensors to reduce risk of sudden accidents.
- Tools: Arduino.

AWARDS AND ACHIEVEMENTS

- 1st Runner Up in hackathon category at BUP ICT Fest 2018, Dhaka, Bangladesh.
- 2nd Runner Up in project display at national science festival 2012, Notre Dame College, Dhaka, Bangladesh.

TECHNICAL TRAINING

iOS Mobile Application Development Program (200 hours) **Dhaka, Bangladesh**
Trainee, ICT Division Bangladesh *June 2018 - November 2018*

CO-CURRICULAR ACTIVITIES

- Member, AUST CC (Cultural Club).
- Organizer, CodeWare18 (week long annual program organized by CSE Department, AUST).
- Performer, AUST CSE FEST organized by CSE Department (2015,2016,2017,2018).

LANGUAGE SKILLS

Bengli	Native
English	Fluent (TOEFL-98)
Japanese	Proficient (Passed JLPT N3)
Hindi	Conversational

REFERENCES

- **Mr. Emam Hossain**
  Assistant Professor of Dept. of CSE
  Ahsanullah University of Science & Technology, Dhaka, Bangladesh.
  Email: emamhossain.cse@aust.edu
- **Dr. Mohammad Shafiul Alam**
  Professor & Head, Dept. of CSE
  Ahsanullah University of Science & Technology, Dhaka, Bangladesh.
  Email: shafiul.cse@aust.edu
- **Dr. Kazi A Kalpoma**
  Professor of Dept. of CSE, Director of ICT Center
  Ahsanullah University of Science & Technology, Dhaka, Bangladesh.
  E-mail: kalpoma@aust.edu