


SYED FAHIM AHMED

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 syedfahimahmed

EDUCATION

University of Utah

PhD in Computer Science

Utah, USA

Fall 2022 - present

Ahsanullah University of Science & Technology

B.Sc in Computer Science and Engineering

Dhaka, Bangladesh

June 2015 - July 2019

GPA: 3.65/4.00 (11th among 152 students)

WORK EXPERIENCE

Rakuten Mobile Inc.

Software Engineer, Department of Symphony Digital Experience

Tokyo, Japan

April 2022 - May 2022

- Developed interactive web system to improve customer experience

ILCT Research Institute Inc.

Software Engineer, Department of IT

Fukuoka, Japan

July 2020 - March 2022

- 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.

Software Engineer, Department of IT

Fukuoka, Japan

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, NLP, Computer Vision, Visualization, Explainable AI.

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, PyTorch
Hardware	Arduino, Raspberry Pi
SIP Server	Asterisk, Kamailio, Flexisip
OS	Linux, Windows
Version Control	Git
DevOps	Docker

PROFESSIONAL PROJECTS

VoIP Phone System

May 2021 - April 2022

- 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)

Trainee, ICT Division Bangladesh

Dhaka, 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

- **Dr. Shireen Elhabian**
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University of Utah.
Email: shireen@sci.utah.edu
- **Dr. Mohammad Shafiul Alam**
Professor, Dept. of CSE
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