

# SYED FAHIM AHMED

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## EDUCATION

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### 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

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### ILCT Research Institute Inc.

*Software Engineer, Department of IT*

**Fukuoka, Japan**

*July 2020 - April 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

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Machine Learning, Deep Learning, Computer Vision, IoT.

## PUBLICATIONS

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- 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

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

## PROFESSIONAL PROJECTS

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### 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

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### 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**

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- 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**

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#### **iOS Mobile Application Development Program (200 hours)**

*Trainee, ICT Division Bangladesh*

**Dhaka, Bangladesh**

*June 2018 - November 2018*

## **CO-CURRICULAR ACTIVITIES**

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- 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**

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

## **REFERENCES**

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- **Dr. Shireen Elhabian**  
Associate Professor of School of Computing  
University of Utah.  
Email: shireen@sci.utah.edu
- **Dr. Mohammad Shafiul Alam**  
Professor & Head, Dept. of CSE  
Ahsanullah University of Science & Technology, Dhaka, Bangladesh.  
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- **Dr. Kazi A Kalpoma**  
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