

# FAIRUZ SHEZUTI RAHMAN

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## EDUCATION

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**Ahsanullah University of Science & Technology**  
Bachelor of Science, Computer Science & Engineering  
**GPA: 3.409/4.00**

*May 2015 - July 2019*  
*Dhaka, Bangladesh*

## TEACHING EXPERIENCE

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**Adjunct Lecturer**  
Department of Computer Science and Engineering  
Daffodil International University(DIU)

*September 2019 - June 2020*  
*Dhaka, Bangladesh*

### Conducted Courses:

- Database Management Systems
- Introduction to Bio-Informatics
- Discrete Mathematics
- Microprocessor and Assembly Language

## RESEARCH INTERESTS

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Machine Learning, Deep Learning & its applications, Computer Vision, IoT, and Image Processing

## 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 SKILLSETS

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**Programming:** Python, C, C++, Java  
**Machine Learning:** Keras, TensorFlow 2.0  
**Database:** MySQL, SQLite, Oracle  
**Web Development:** HTML5, CSS3, JavaScript, PHP, WebGL  
**Computer Vision:** MATLAB  
**Hardware:** Arduino  
**OS:** Linux, Windows  
**Version Control:** Git

## AWARDS AND ACHIEVEMENTS

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- **1st Runner Up** in **hackathon category** at BUP ICT Fest 2018, Dhaka, Bangladesh.
- **2nd Runner Up** in **cultural competition** at BUP Inter-University Cultural Fest 2016, Dhaka, Bangladesh.
- **2nd Runner Up** in **dance category** at Viqarunnisa Noon College Cultural Competition 2013, Dhaka, Bangladesh.

## SELECTED ACADEMIC PROJECTS

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**A Correlation based Finger Print Verification System***Fall 2018*

- The main goal of the project is to verify finger print using different Digital Image Processing algorithm
- Tools: MATLAB

**Architectural Visualization of a Computer Desk***Fall 2018*

- The visual representation of a computer desk with common materials
- Tools: Notepad++,Blender

**A Theoretical Analysis of Food Interest***Fall 2018*

- A summery of pattern health risk of common food interest based on location and time-table using our university student's data
- Applied SVR, SVC, and logistic regression
- Tools: Python, Numpy, Panda, Matplotlib, Scikit-learn

**EMHealth 24/7***Spring 2018*

- Emergency Health-care android application which provides blood donor information and emergency ambulance service.

**Hotel Management System (C#)***Spring 2018*

- Management system of a hotel with customer and admin interface
- Tool: Microsoft Visual Studio,

**Hand Gesture Control Robot***Fall 2017*

- The primary purpose was controlling a robot using hand movement.
- Arduino based hardware project of IoT(Internet of Things)
- Tools: Arduino

**Book Bazar***Spring 2017*

- A website for online book store
- Tools: SublimeText

**Canteen Management***Spring 2016*

- Initial database management system
- Tools: Netbeans

**Bubble Shooter***Fall 2015*

- First developed app which is desktop shooting game
- Tools: Microsoft Visual Studio

**PRESENTATION WORKSHOP**

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- Presented a paper on 22nd International Conference on Computer and Information Technology (ICCIT 2019)
- Attended as faculty member in "Workshop with Professor Dr. S. R. Subramanya, National University, San Diego, USA", organized by The Head of CSE Department of Daffodil International University, Dhaka Bangladesh.

- Participated in "Workshop on Robotics", organized by The Institute of Electrical and Electronics Engineers, AUST Branch, Dhaka Bangladesh

## EXTRA-CURRICULAR ACTIVITIES

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- **Vice-president** *January 2019 - May 2019*  
AUST Cultural Club, Ahsanullah University of Science & Technology *Dhaka, Bangladesh*
- **Joint Secretary** *February 2018 - December 2018*  
AUST Cultural Club, Ahsanullah University of Science & Technology *Dhaka, Bangladesh*
- Organized CodeWare' 18 at Ahsanullah University of Science & Technology, Dhaka, Bangladesh.
- Participated in BUP ICT FEST' 18 in Hackathon Category, BUP, Dhaka, Bangladesh.
- Participated in UIU HackLab Contest' 19, UIU, Dhaka, Bangladesh
- Performer at AUST CSE FEST organized by CSE Department(2015, 2016, 2017, 2018)
- Involved with Bangladesh Scout
- Participated in 7th Melaka World Heritage City Jamboree 09, Malaysia.

## LANGUAGE PROFICIENCY

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**Bengli:** Native  
**English:** Fluent  
**Japanese:** N5 Level  
**Hindi:** Conversational

## REFERENCES

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- **Mr. Emam Hossain**  
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Department of Computer Science and Engineering  
Ahsanullah University of Science & Technology, Dhaka, Bangladesh.  
Email: emamhossain.cse@aust.edu
- **Dr. Kazi A Kalpoma**  
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