



# SAIMA SHARLEEN ISLAM

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## Education

**American International University-Bangladesh**

**May 2016 – Feb 2020**

*Bachelor of Science in Computer Science & Software Engineering (CGPA: 3.42 /4.00)*

*Dhaka, Bangladesh*

## Relevant Coursework

- Data Structure
- Algorithms
- Artificial Intelligence
- Computer Vision
- Research Methodology
- Introduction to Database
- Data Mining
- Statistics and Probability

## Standardized Tests

### International English Language Test (IELTS):

*Aggregate: 7, Listening: 8, Reading: 7, Speaking: 7, Writing: 6*

## Research Interests

Machine Learning, Medical Informatics, Bioinformatics, Deep Learning, Computer Vision

## Research Experiences

### Application of Machine Learning Algorithms to Predict the Thyroid Risk: An Experimental Study

- Compared various algorithms for increasing the accuracy of thyroid disease prediction using the UCI thyroid data collection.(Submitted to Heliyon)

### Bengali Sign Language Recognition

- The automatic recognition and translation of sign language facilitates natural communication between dumb and deaf persons and normal people. The recognition structure is confirmed using a dataset of 40,000 selected hand sign images from BDSL36. The proposed structure ensures the functionality of upgrading the directed dataset in real-time by taking new photographs of variant people.(Currently work on progress)

### UG Thesis: Human Detection in Crowd using Video Surveillance System

- Using YOLO detected human in crowd in AIUB premises.

## Publications

### Conference Paper:

- An Empirical Survey on Crowdsourcing-Based Data Management Techniques  
Accepted for the International Conference on Computing Advancements ICCA 2020

## Competition Achievements

- **Ada Lovelace Datathon 2021**  
Team Position: 8th  
Team Name: Panda-15  
Standing Link: <https://www.kaggle.com/c/alc-datathon-2021/leaderboard>
- **National Girls' Programming Contest 2018**  
Team Name: AIUB Incognito  
Standing Link: <https://algo.codemarshal.org/contests/ngpc18/standings>
- **The Duke of Edinburgh's International Award**  
The Bronze Standard
- **Hult Prize at AIUB**  
2nd Runner Up
- **World Literature Centre Book Reading Program**  
Winner

## Professional Experience

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### System Arts

Apr 2020 — Mar 2021

*Software Enginner*

*Dhaka, Bangladesh*

- Assisted in development of the front end of a client's website.
- Collaborated with team members using version control systems such as Git to do the modifications.

### American International University-Bangladesh

Sep 2019 — Dec 2019

*Teaching Assistant*

*Dhaka, Bangladesh*

- Assisted my supervisors with instructional responsibilities.
- Graded papers and provided feedbacks.

### Battery Low Interactive

Aug 2019 — Nov 2019

*Intern, Web Development and Content Writing*

*Dhaka, Bangladesh*

- Collaborated with team members using version control systems such as Git to complete the assign tasks.
- Created different contents for the company.

## Academic Projects

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### Extra Food Distribution Management System | *HTML, CSS, Java script, Bootstrap, PHP, My SQL*

- Overview:A platform for the Restaurant owner, Volunteer, Admin, Event Manager and General User. The owner can post for leftover foods, and a volunteer will pick up the foods and later will donate food in a specific location.
- Github Link: <https://github.com/saimasharleen/Extra-Food-Distribution-Management-System-Web-Technologies->

### Ticket Price Calculator App | *Java, Android Studio*

- Created an Android application using Java and Android Studio to calculate ticket prices
- Processed user inputted information in the back-end of the app to return a subtotal price based on the tickets selected.
- Utilized the layout editor to create a UI for the application in order to allow different scenes to interact with each other.

### Nirjhor | *c++, opengl*

- Overview: Nirjhor is basically a scenery-based project using opengl.
- Github Link: <https://github.com/saimasharleen/Nirjhor-Graphics-Project->

### Fashion | *bootstrap,css,javascript,html*

- Overview: Fashion is basically a web design project.
- Github Link: <https://github.com/saimasharleen/Fashion-Web-Design>

## Technical Skills

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**Languages:** Python, C, C++, Java, c#

**Tools:** VS Code, Jupyter Notebook, Google Colab, TeXworks, Overleaf, PyCharm, Mendeley

**AI/Machine Learning:** Scikit-Learn, Numpy, Pandas, Matplotlib, OpenCV

**Web Techologies:** Laravel,PHP, HTML5, CSS3, Bootstrap, Nodejs

**Version Control Tool:** Git

## Extracurricular Activities

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### Firefox at AIUB

June 2018 – Feb 2020

*Club Lead*

*American International University-Bangladesh*

- Managed executive board of 8 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Led chapter of 50+ members to work towards goals that improve and promote opensource and improve community service.

## References

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### Md. Saef Ullah Miah

*Assistant Professor(On-leave)*

*Department of Computer Science*

American International University-Bangladesh

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### Dr. Dip Nandi

*Associate Professor and Director*

*Faculty of Science and Technology*

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### Md. Al-Amin

*Lecturer*

*Department of Computer Science*

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