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 IEEE Access)

Bengali Sign Language Recognition
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- 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

Cystem 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

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

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

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

Md. Saef Ullah Miah
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