

MD Delwar Hosen

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EDUCATION

- **Jahangirnagar University** Savar, Dhaka
Masters in Computer Science; CGPA: 3.52/4.0 *February 2022 - February 2023*
- **North South University** Dhaka, Bangladesh
Bachelor in Computer Science and Engineering; CGPA: 3.22/4.0 *Jan 2015 - Dec 2019*

RESEARCH INTEREST

Machine Learning, Software Engineering, Privacy and Security, Cyber-Physical System, Human Computer Interaction, Computer Vision, Bioinformatics, Data Analytics, Data-driven modeling

SKILLS SUMMARY

- **Languages:** C/C++, Python, Java, Golang, MATLAB, SQL
- **Tools & frameworks:** OpenCV, TensorFlow, Keras, Gin, Django, GIT, VS Code, Postgres

WORK EXPERIENCE

- **TechnoNext Ltd.** Dhaka, Bangladesh
Software Engineer *April 2023 - Present*
 - **OTA Platform:** Research and development of different Global Distributed Systems for air flight and hotel search, booking & purchasing, and integrating them into existing Online Travel Agency(OTA) B2B and B2C platforms. Coordinated with a team of 30+ software engineers to develop a Golang and .NET microservice-based 3-tier system application for a global OTA company with a few hundred thousand user requests each day.
- **Satcom IT Ltd** Dhaka, Bangladesh
Software Engineer *March 2022 - March 2023*
 - **Bill Collection System:** The bill collection system is part of an enterprise solution. Six collection types have been introduced, each with one adjustment option. All bills are generated against a unique bill number and client. This system automated bill payment collection and reduced end-user workload by more than 70%.
 - **Fabric Price Calculation:** Designed and developed a fabric price calculation service responsible for calculating different types of fabric prices based on the type of dress, fabric GSM, length-width, the weight of each product, and other logistics.
- **TriaMatter Interactive** Dhaka, Bangladesh
Junior Software Engineer *December 2020 - February 2022*
 - **E-Commerce application:** Worked on building an E-commerce web application using NodeJS. This project helped me learn server-side programming.
 - **UI Test:** Worked on a web application UI test. Besides manual testing, I performed hands-on automated browser testing using both Selenium WebDriver and Cypress.

RESEARCH EXPERIENCE

- **Research Assistant(Part-time):** Researches based on computer vision, privacy & security, and machine learning applications under Dr. Md Golam Moazzam's supervision
- **Master's thesis topic:** "Analyze Skin Disease using Xception Deep Learning Technique".
- **Bachelor's thesis topic:** "Design and implement anomaly detection and analyze human behavior by using a convolutional neural network".

PUBLICATIONS

- **Hosen, M. D., Moazzam, M. Golam, "Analyze Skin Disease using Xception Deep Learning Technique"** accepted in the 26th International Conference on Computer and Information Technology (ICIT) 2023.
- **R. Haque, M. B. Islam, K. Kaushik, Hosen, M. D., R. H. Dip, "Alzheimer Disease Classification Using Deep Neural Network,"** accepted in UPCON-2023
- **Paul, A. K., Hasan, M. M., & Hosen, M. D. (2023, August 16). "A New Data-Driven Method to Identify Violent Facial Expression."** accepted in AIAMMS 2023. <https://arxiv.org/abs/2308.08658v1>
- **R. Haque, Hosen, M. D., Hasan, M. Kamrul, "Advancing Cybersecurity: Hybrid Deep Learning for Malware Classification and Beyond"** The journal manuscript is under review in IEEE Access.

ACADEMIC PROJECTS(COURSE)

- **Sound Classification (Machine Learning):** Developed a sound classification system that can classify different kinds of sound just like humans. Convolutional neural networks classify sound clips to a high degree of accuracy through image representations. (Summer '18)
- **Stock Price Prediction (Pattern Recognition):** Developed a stock price prediction model by using historical information regarding a single stock to predict the future trend of the stock's price. (Fall '18)
- **2D Shooting Game(Object Oriented Programming):** Implemented a Java language-based front-line 2D shooting game where OOP core concepts have been applied. (Spring '16)

TEST SCORES

- **IELTS:** 6.5 (L-7.5,R-6.5,W-6.0,S-6.5)
- **Duolingo:** 115

HONORS AND AWARDS

- Selected in the top 20 students for the Cybernauts event organized by the NSU CEC club from August 2015 to August 2017.
- Ranked top 10% among the batch of 600 students in the Department of Electrical and Computer Engineering.
- The Government of Bangladesh awarded a Teletalk Agami SIM card for having the highest GPA in the high school level S.S.C. exam in 2011.

ACCOMPLISH TRAINING & WORKSHOP

- AWS Fundamentals: Going Cloud-Native. Grade Achieved: 94.04%
<https://coursera.org/share/cd7d3162caada75264d886336fcdad00>
- Professional Web Development in Django Training Program organized by IEEE North South University student chapter in 2019

EXTRA-CURRICULAR ACTIVITIES AND LEADERSHIP EXPERIENCE

- I taught new interns the basics of how software development works and codebases, showed them around my workspace, and helped them assimilate and gain experience throughout the time.
- During undergrad, I volunteered to distribute food and medicine in flood-affected areas of northern Bangladesh.
- Tutored high school students in mathematics and physics in order to help them better understand.

PROFESSIONAL MEMBERSHIP

- Bangladesh Computer Society(BCS) since 2021
- Former Student Member of IEEE NSU Student Branch
- Member of Engineering Students' Association of Bangladesh (ESAB)

REFERENCES

- Dr. Sazzad Hossain
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North South University,Dhaka,Bangladesh
Email: shazzad.hosain@northsouth.edu
- Adnan Firoze
PhD, Computer Science
Purdue University
Lecturer on leave, Department of Electrical and Computer Engineering
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- Dr. Md. Golam Moazzam
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