
ACADEMIC

Bachelor of Science

Dhaka, Bangladesh

Jan 2011 – May 2015

- Computer Science & Engineering (GPA: 3.14)
- University of Development Alternative
- Graduate Coursework: Data Structure & Algorithms, Artificial Intelligence, Analysis of Algorithms, Database Management System, Discrete Mathematics, Management Information System, Neural Networks, Numerical Analysis, Linear Algebra, Object Oriented Programming

Standardized Tests

- GRE Score: 298 (Quant 157, Verbal 141)
- TOEFL: Taking Preparation

Additional Training

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| • A Complete Journey to Become a Programmer, Phitron (1 year long 27 credits program) | 2022-Ongoing |
| • Mobile Application Development, BASIS, Bangladesh | 2016 |
| • JAVA Enterprise Web Programming (J2EE), Bangladesh University of Engineering and Technology (BUET) | 2015 |
| • Architectural Drafting with AutoCAD (2D, 3D) by Bangladesh Technical Education Board(BTEB) | 2014 |

RESEARCH

Publications

- Akter, Nadia & Newaz, Anisa & Shakara, Amathul Hadi & Al-Mamun, Md. (2017). A Mobile Based Application for Journey Safety. IOSR Journal of Computer Engineering.

Research Interest

- Computational Analytics, Data Visualization, Machine Learning, Security & privacy

Research Projects

- **Security Application:** In our undergraduate thesis we got the 2nd position in best thesis award by designing an android application for journey safety particularly for women. We used google geo-location based API, speedometer, automatic photo-capture, signal transfer to nearest law enforcement unit and so on. In our future work, we plan to implement to trigger the security phase by using NLP and AI.
- **Robust Optimization and Reinforcement Learning:** In healthcare area, resources (doctors, operating rooms etc) utilization follow uncertain behavior which rise the concern of optimization technique to schedule resources in healthcare. We are working on designing a RL based scheduling algorithm that maximize the probability to complete the jobs within a certain threshold.
- **Supply Chain under Uncertainty:** During the time of global pandemic, or any global disaster supply chain abruptly tremendously hue to the raw material shortage, manpower shortage, transportation disruption etc. Considering the uncertain parameters, we plan to design the supply chain in a way such that the expected loss are minimized. In this project we consider both the node and edge level abstractions in the network.

OTHERS

Languages and Technologies

- C, C++, Python, MySQL, Java
- Latex, Excel, Zoom, AutoCAD, ArcGIS

Employment

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| • Volunteer Research Assistant, CCACS lab, Texas Tech University | 2022-present |
| • Education Leadership Volunteer, Deyalkotha Bangladesh | 2016-2019 |
| • Junior Software Engineer, HiSoft Bangladesh. | 2016 - 2016 |
| • Junior Software Engineer, O3Lab Bangladesh. | 2015-2016 |

Additional Experience & Awards

- Undergraduate Best thesis award (2nd Position)
- National level Debate competition Bootcamp, selected from inter college debate competition.
- Merit Scholarship in Skills for Employment Investment Program (SEIP), BASIS, Bangladesh