

Afzal Hussain

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EDUCATION

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)

BACHELOR OF SCIENCE

Expected: November 2018
Major: Mechanical Engineering
Faculty of Engineering
Cum. GPA: 3.69 / 4.0

CONTACTS/LINKS

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COURSEWORK

UNDERGRADUATE

Computer Aided Design (CAD)
Automatic Control System
Mechatronics
Computer Programming
Machine Design
Engineering Mathematics

MOOCS

Deep Learning Specialization Coursera
A Hands-on Introduction to Engineering Simulations | edX
Using Python for Research | edX
Machine Learning | Coursera

SKILLS

PROGRAMMING

Languages:
C++ • Python • MATLAB • ~~TeX~~
Scientific Computing:
scikit-learn • TensorFlow • Keras
Familiar:
HTML • CSS • PHP • JS • MySQL

PROJECT

PROPERTYTABLE | WEB DEVELOPMENT

In short, propertytable.online is an engineering database website. It was developed to make engineering calculation easier by finding properties of different substances at desired units. The whole back-end of this website is build from scratch using PHP & MySQL.

PHYSICS-INFORMED DEEP LEARNING | UNDERGRADUATE RESEARCH

It is an ongoing research project where newer deep learning models i.e. Convolutional LSTM, Generative Adversarial Networks (GAN) are used to predict complex fluid flow phenomenon.

EXPERIENCE

ENGINEERING INTERN | BANGLADESH POWER DEVELOPMENT BOARD

Nov 2017 | Rajshahi, Bangladesh

- Learnt about BPDB and power sector of Bangladesh.
- Visited three different power plants, get hands on demonstration in power generation, distribution and plant maintenance.

CAMPER | BANGLADESH ASSOCIATION OF PROBLEM SETTERS (BAPS)

Oct 2016 | Dhaka, Bangladesh

- Camp was arranged for selected undergraduate students for ICPC Dhaka Regional preparation.
- Learnt different types of algorithm that commonly appears in competitive programming like Graph Theory, Dynamic Programming, Computational Geometry & Data Structure.

CONTESTANT | PROGRAMMING COMPETITION

Dec 2013 - Feb 2016 | Dhaka, Bangladesh

- Participated programming contests at school level both at regional & national level.
- Represented undergrad university at ACM ICPC Dhaka Regional, NCPC & other different national contests during freshman year.

RESEARCH

CONFERENCE | SGIOT 2018

July 11-12, 2018 | Niagara Falls, Canada

Khandaker, S. M., Hussain, A., & Ahmed, M. (2018). *Effectiveness of Hard Clustering Algorithms for Securing Cyber Space* (pp. 1-8). 2nd EAI International Conference on Smart Grid and Internet of Things.

Investigated the effectiveness of different hard clustering techniques for identification of a range of state-of-the-art cyber attacks.

AWARDS

2015	2nd	ICPC Team selection Contest, IUT
2015	4th	Intra-IUT Computer Programming Contest
2014	National	Bangladesh Olympiad on Astronomy and Astrophysics, Finalist
2014	National	Bangladesh Physics Olympiad (BdPhO), Finalist
2013	National	Bangladesh Olympiad in Informatics (BdOI), Finalist