Curriculum vitae +1-(587)-969-9923

Fahim Anzum

Graduate Student, Graduate Assistant - Research
Department of Computer Science
The University of Calgary

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https://github.com/anzumbivor
https://anzumbivor.github.io/

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Research Interest

Machine Learning and Deep Learning with a focus on real-world problems (*i.e. Online Social Media, Biometric Technology, Healthcare, Autonomous Vehicles, etc.*); Human-in-the-loop Computing; Human-Computer Interaction (HCI); Intersection of Machine Learning and HCI

Education

• Master of Science: Computer Science (CGPA: 4.00/4.00 Up to Ongoing Semester)

University of Calgary

Supervisor: Dr. Mario Costa Sousa

Research Project: Towards Exploring Different Image-Based Deep Learning and Machine Learning Algorithms to Estimate Particle Size Distribution of Drill Core

• Bachelor of Science: Computer Science and Engineering (CGPA: 3.79/4.00)

Military Institute of Science and Technology (MIST), Bangladesh University of Professionals (BUP)

Undergrad Thesis: A New Algorithm to Compute Single Source Shortest Path

in a Real Edge Weighted Graph to Optimize Time Complexity

Expected: Aug 2021 Calgary, Canada

Jan 2018

Dhaka, Bangladesh

Publication (https://scholar.google.com/citations?user=gziajGcAAAAJ&hl=en)

- Asha, A.Z., Anzum, F., Finn, P., Sharlin, E. and Costa Sousa, M., 2020, September. Designing External Automotive
 Displays: VR Prototypes and Analysis. In 12th International Conference on Automotive User Interfaces and
 Interactive Vehicular Applications (pp. 74-82).
- Anzum, F., Ahmed, F., Azim, M. S., Hossain, M., Zaman, S., Hasib, F., & Al Ahsan, S. (2018, June). Smart Self Position
 Aligning Chair for a Modern Conference Room. In 2018 IEEE/ACIS 17th International Conference on Computer and
 Information Science (ICIS) (pp. 263-268). IEEE.
- Zavin, A., Anzum, F., Rahman, S. F., Islam, M. N., & Hoque, M. (2018, December). Towards Developing an Intelligent
 Fire Exit Guidance System Using Informed Search Technique. In 2018 21st International Conference of Computer
 and Information Technology (ICCIT) (pp. 1-6). IEEE.
- Sharif, A., Anzum, F., Zavin, A., Suha, S. A., Ibnat, A., & Islam, M. N. (2018, July). Exploring the Opportunities and Challenges of Adopting Augmented Reality in Education in a Developing Country. *In 2018 IEEE 18th International Conference on Advanced Learning Technologies (ICALT)* (pp. 364-366). IEEE.
- Ahmed, F., Anzum, F., Islam, M. N., Abdullah, W. M., Al Ahsan, S., & Rana, M. (2018, June). A New Algorithm to Compute Single Source Shortest Path in a Real Edge Weighted Graph to Optimize Time Complexity. In 2018 IEEE/ACIS 17th International Conference on Computer and Information Science (ICIS) (pp. 185-191). IEEE.

Awards & Scholarships

- "Department Research Award" (2020-21) at the University of Calgary
 - Valued at CA\$ 11,000 (Will be effective on Winter 2021)
- "Mitacs-Accelerate Graduate Research Internship" (2019-2021) at the University of Calgary
 - o Valued at CA\$ 50,000 for 2 years
- "International Graduate Recruitment Award" (2019) at the University of Calgary
 - Valued at CA\$ 2,000 received on September 2019
- "Visa Differential Scholarship" (2019) at the University of Calgary
 - o Valued at CA\$ 4,126.17 for 1 year

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- "MIST Commandant's List Award" (2015, 2016) in MIST for academic distinction
- "HSC Scholarship (2012)" stood 19th in Dhaka Education Board, Bangladesh
- "Junior School Scholarship (2008)" on 8th grades, Dhaka, Bangladesh

Work Experience & Training

University of Calgary

Graduate Assistant - Teaching

Conducted Courses:

- CPSC-217 (Introduction to Computer Science for Multidisciplinary Studies-I)
- CPSC-319 (Data Structures, Algorithms and Their Application)

• Suncor Energy Inc.

Research Intern

United International University (UIU)

Lecturer, Dept. of Computer Science and Engineering (CSE)

Course Conducted: Computer Graphics

Primeasia University

Lecturer, Dept. of Computer Science and Engineering (CSE)

Course Conducted: Software Engineering, Data Structures

Workshop on "Outcome Based Education" (OBE)

United International University (UIU)

Short Course on Cisco Certified Network Associate (CCNA)

Military Institute of Science and Technology (MIST)

• Global Voice Telecom Limited

Industrial Training on VoIP technology

Calgary, AB, Canada

Spring 2020, Winter 2020

Calgary, AB, Canada

Sept 2019 - Present

Dhaka, Bangladesh

Aug 2018 – Aug 2019 (Currently on Study-leave)

Dhaka, Bangladesh

June 2018 - July 2018

Dhaka, Bangladesh

Aug 2018

Dhaka, Bangladesh

Duration: 42 Hours

Dhaka, Bangladesh

Dec 2016 - Jan 2017

Online Courses and Certifications

• Introduction to TensorFlow for Artificial Intelligence, Machine Learning, And Deep Learning

- Issuing Organization: Coursera

- Issue Date: April 20, 2020

- Credential ID: <u>6EK8CMWJWPGE</u>

• Python for Data Science and Machine Learning Bootcamp

- Issuing Organization: Udemy

- Issue Date: April 17, 2020

- Credential ID: UC-685f6e72-e398-462d-9cdf-666adbd78b9b

Technical Proficiency (https://github.com/anzumbivor)

- **Programming Language**: Python, C, C++, Java, HTML5, CSS, PHP, JavaScript, MySQL, Assembly
- Platform/Library: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-Learn, TensorFlow, Keras, MATLAB, OpenGL, Android, Oracle 11g, Windows, Linux, GitHub, Cisco Packet Tracer, GNS3, MS Office, Latex

Extra-Curricular Activities & Awards

- Organizer of 21st International Conference on Computer and Information Technology (ICCIT 2018)
- Champion in International Telco Warfare (Net War) 2017 organized by East West University
- Runner-up in IUT CSE Fest (App Development) 2017 among 41 teams
- Second Runner-up in SUST CSE Carnival (Hackathon) 2017 among 36 teams
- **Winner** in National Symposium on "Chemical Weapons Convention for the Peaceful Use of Chemistry" (Poster Competition) 2017
- Participated in Project Showcasing in IEEE IHTPC 2017 organized by BUET