

Shehtab Zaman

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Education

Binghamton University, State University of New York

Binghamton, New York

WATSON SCHOOL OF ENGINEERING AND APPLIED SCIENCE

Expected December 2020

- Master of Science in Computer Science
- Relevant Coursework: Advanced Object Oriented Programming, Algorithms, Data Science for Social Media

HARPUR COLLEGE OF ARTS AND SCIENCE

January 2019

- Bachelor of Science in Mathematical Physics

WATSON SCHOOL OF ENGINEERING AND APPLIED SCIENCE

- Minor of Science in Computer Science

CGPA:3.9/4.0

Technical Skills

Programming Languages Python, C++, JS, SQL, Mathematica

Proficient Windows, Linux, MacOS, Microsoft Office Suite, MySQL, MongoDB, TensorFlow, \LaTeX , Angular

Professional Experience

Lawrence Livermore National Laboratory

Livermore, California

DATA SCIENCE INSTITUTE - RESEARCH SCHOLAR

May 2020 - August 2020

- Investigated scalable geometric and 3D deep learning using the LBANN toolkit on GPU accelerated HPC systems
- Implemented distributed, GPU accelerated Graph convolutional kernels and graph structured data ingestion pipeline for LBANN
- Developed time-series signature verification models on Human Connectome Project fMRI data

Binghamton University

Binghamton, New York

CS DEPARTMENT - GRADUATE RESEARCH ASSISTANT

December 2019 - Present

- Developed deep learning approach to generate novel metal-organic frameworks (MOF) using 3D GANs and VAEs
- Created deep neural networks models such as 3D-CNN and GCNN to develop high throughput property characterization of MOFs

Binghamton University

Binghamton, New York

CS DEPARTMENT - AUTOMATA THEORY TEACHING ASSISTANT

January 2019 - December 2019

- Prepared materials for and lectured during weekly 1.5 hour discussion class on models of computation
- Held weekly sessions with students in small groups to assist them with learning objectives, and assignments

Project Experience

Social Media Credibility Analysis

Binghamton, New York

DATA SCIENCE FOR SOCIAL MEDIA ANALYSIS

December 2019

- Collected and analyzed bias more than 32 million Tweets to classify bias and quality of linked sources using Python and MongoDB
- Performed statistical analysis such as KS (Kolmogorov-Smirnov) Test and Kernel Density Estimation to quantify the results of collected data

Honors & Awards

Robert J Penfield Award

Binghamton, New York

UNDERGRADUATE AWARD FOR JUNIOR PHYSICS STUDENT

April, 2018

- Awarded due to outstanding academic promise in physics

Hack Cooper Finalist and Best Video Hack Winner

New York, New York

IMMERSE

October 2016

- Created a touch-free gesture controlled media player that feature an infrared sensor
- Collaborated with members to use JavaScript, Electron, VideoJS, and Bootstrap to develop the media player

Publications

Real-Space Visualization of Quantum Phase Transition by Network

Topology

PHYSICAL REVIEW E VOL. 100 ISSUE 1

July 2019

Towards Run Time Estimation of the Gaussian Chemistry Code for SEAGrid

Science Gateway

PRACTICE & EXPERIENCE IN ADVANCED RESEARCH COMPUTING CONFERENCE

July 2019