

FARZANA AHAMED BHUIYAN

Address: Cookeville, TN – 38501

Email: fbhuiyan42@students.tntech.edu

Phone: (931) 349-2387

OBJECTIVES

- ❖ To obtain an internship with a leading software company which provides the opportunity to work on meaningful and impactful projects.

WORK EXPERIENCE

- ❖ **Research Intern, Oak Ridge National Laboratory** (June 2019 – August 2019)
Worked on multimodal detection of adverse cyber events using an integrated neuromorphic processor, learned how to apply multimodal machine learning techniques to machine intrusion data sets, investigate different methods, their accuracy, recall and performance.
- ❖ **Teaching Assistant, Tennessee Technological University** (August 2017 – May 2019)
Tutored students, took labs, graded quizzes and assignments and investigated exams
Class: Introduction to Problem Solving and Computer Programming, Database Management Systems, Object Oriented Programming
- ❖ **Software Engineer (Android Developer), Reve System Ltd.** (September 2016 – June 2017)
Built apps that communicate with RESTful services, worked on making the existing applications more user friendly.
- ❖ **Software Engineer (Android Developer), iPay System Ltd.** (April 2016 – August 2016)
Contributed to the full mobile application development lifecycle of an online payment gateway system from planning, requirement gathering, development, testing and launching on Google play store, wrote technical specifications.

Research Experience

- ❖ **Multimodal Intrusion Detection:** Developing an intrusion detection dataset (IDs) as well as an intrusion detection system in multimodal environment where we have different type of data sources such as network traffic and host traffic.
- ❖ **Multimodal Deep Learning:** The aim is to evaluate various Deep Learning techniques to solve multimodal problems by evoking and promoting various challenges in the conceptual level of multimodal deep learning.

Technical Skills

- ❖ Proficient in Python, Ruby, C, C++, Java, Assembly, PHP, HTML, CSS, SQL, TensorFlow, Keras, MPI, OpenMP
- ❖ Excellent problem-solving abilities, good communication skills, passionate about product quality

EDUCATION

- ❖ **Doctor of Philosophy (PhD)** (August 2017 – Present)
Department of Computer Science (CSC), Tennessee Technological University
Concentration: Machine Learning & Data Mining Thesis: Multimodal Deep Learning **CGPA: 4.00/4.00**
- ❖ **Bachelor of Science (B. Sc.)** (January 2011 – March 2016)
Department of Computer Science & Engineering (CSE), Bangladesh University of Engineering and Technology (BUET)
Thesis: Intelligent e-Health Monitoring System **CGPA: 3.84/4.00**

ACCOMPLISHMENTS

- ❖ The Grace Hopper Celebration of Women in Computing (GHC) 2019 Scholar
- ❖ CRA-W Grad Cohort Workshop 2019 scholar
- ❖ Student Volunteer and Attendee at the Women in Cybersecurity conference (WiCyS) 2019
- ❖ Student Volunteer and Attendee at the SuperComputing conference (SC) 2018
- ❖ Attendee at the Tri-State Women in Computing (TRIWIC) 2018