

## SHEIKH RABIUL ISLAM

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### EDUCATION

- **Ph.D.** (in progress) in Computer Science, *Tennessee Tech University, TN, USA.* 2015-Spring, 2020  
*Selected coursework:* Machine Learning, Data Mining, Big Data, Anomaly and Intrusion Detection, Intelligent Information Systems, Learning Theory, and Parallel Programming.
- **MS** in Computer Science, GPA 3.89, *Tennessee Tech University, TN, USA.* 2015-2018
- **BSc** in Computer Science, GPA 3.84, *Islamic University of Technology, Bangladesh.* 2007-2010

### TOOLS AND RELATED SKILLS

- *Programming:* Python, Java, C++, PHP, MPI, OpenMP, CUDA, Javascript, and R.
- *Data Science:* Proficient in Scikit-learn, NLTK, Pandas, and Flask; Familiar with Tensorflow, Keras, Caffe, D3.js, Highchart, Matlab, and Weka.
- *Database:* Oracle, MySQL, PostgreSQL, and SQLite3.
- *Certification & Training:* High-Performance Computing Workshop at ORNL, Oracle Database SQL Certified Expert (2013), Red Hat Certified Engineer (RHCE) training course at Base Ltd.

### EXPERIENCE

- *Graduate Research Assistant*, Tennessee Tech University: Currently working on improving interpretability and explainability of Artificial Intelligence based complex models. 2018-present
- *Advanced Short-Term Research Intern*, Oak Ridge National Laboratory (ORNL), USA: Worked on an automated and generalized malware detection technique from host logs. Summer, 2018
- *Graduate Teaching Assistant*, Tennessee Tech University: Worked on different research and software development project. Also, instructed some undergraduate labs (C++, Database). 2015-2018
- Worked independently and collaboratively in multiple software development projects during my four years of fulltime job in two different telecommunication company in Bangladesh. 2011-2015

### RESEARCH AND AWARDS

- *Research Interests:* Interpretable and Explainable Artificial Intelligence, Fraud/Anomaly Detection, Predictive Modeling, Data Mining, and Big Data Analysis.
- Islam et al., *Mining Illegal Insider Trading of Stocks: A Proactive Approach*, IEEE Big Data, 2018.
- Islam et al., *Credit Default Mining Using Combined Machine Learning and Heuristic Approach*, ICDATA, 2018.
- Islam et al., *Mining Bad Credit Card Accounts from OLAP and OLTP*. ACM-ICCD, 2017.
- Co-author in few other research paper, poster, and extended abstract.
- Ivanhoe Fellowship 2017

### PROFESSIONAL SERVICES

- President, Computer Science Graduate Club 2018
- Member, IEEE 2018