CURRICULUM VITAE

Sheikh Rabiul Islam
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EDUCATION

Ph.D. (in progress) in Computer Science, *Tennessee Tech University, TN, USA*.
 Selected coursework: 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*.
 BSc in Computer Science, GPA 3.84, *Islamic University of Technology, Bangladesh*.

RESEARCH INTERESTS

- Data Mining and Big Data Analysis
- Predictive Modeling in Finance and Cyber Security
- Hierarchical and Longitudinal Data Analysis
- Anomaly or Fraud Detection
- Text Mining

TOOLS & 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:
 - o 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 towards my
 dissertation on an efficient predictive modeling technique for hierarchical and longitudinal
 data. Possible use cases are in financial (e.g., credit risk) and cyber security (e.g., log analysis)
 domain.
- Advanced Short-Term Research Intern, Oak Ridge National Laboratory (ORNL), USA: Worked Summer,2018
 on an automated and generalized malware detection technique from host logs.
- *Graduate Teaching Assistant*, Tennessee Tech University: Worked on different research and 2015-2018 software development project. Also, instructed some undergraduate labs (C++, Database).
- Worked independently and collaboratively in multiple software development projects during 2011-2015 my four years of fulltime job in two different telecommunication company in Bangladesh.

AWARD

• Ivanhoe Fellowship 2017

2018 Sheikh Rabiul Islam, Sheikh Khaled Ghafoor, and William Eberle, "Mining Illegal Insider Conference Trading of Stocks: A Proactive Approach", IEEE Big Data, 2018. Paper Md Mosharaf Hossain, Thomas M. Hines, Sheikh Rabiul Islam, Sheikh K. Ghafoor, and Conference Ramakrishnan Kannan, "A Flexible-blocking Based Approach for Performance Tuning of Paper Matrix Multiplication Routines for Large Matrices with Edge Cases", The 2nd Workshop on Benchmarking, Performance Tuning and Optimization for Big Data Applications (BPOD), IEEE Big Data, 2018. Sheikh Rabiul Islam, William Eberle, and Sheikh Khaled Ghafoor, "Credit Default Mining Conference Using Combined Machine Learning and Heuristic Approach", 14th Int. Conference on Data Paper Science (ICDATA'18),2018. Sheikh Rabiul Islam, "An Efficient Technique for Mining Bad Credit Accounts from Both OLAP Masters and OLTP", ProQuest Dissertations Publishing, 2018. 10787567. Dissertation Tigstu Dullo, Sudershan Gangrade, Ryan Marshall, Sheikh R. Islam, Sheikh Ghafoor, Poster/ ShihChieh Kao, and Alfred J. Kalyanapu, "The Vulnerability of Critical Energy Infrastructures Abstract to Climate Change induced Flooding: A Case Study for the Conasauga River basin", 27th Tennessee Water Resources Symposium, 2018. 2017 Sheikh Rabiul Islam, William Eberle, and Sheikh Khaled Ghafoor, "Mining Bad Credit Card Conference Accounts from OLAP and OLTP", ACM International Conference on Compute and Data Paper Analysis (ICCDA'17), 2017. AJ Kalyanapu, TT Dullo, S Gangrade, SC Kao, R Marshall, SR Islam, and SK Ghafoor, Poster/ "Hurricane Harvey Riverine Flooding: Part 1-Reconstruction of Hurricane Harvey Flooding for Abstract Harris County, TX using a GPU-accelerated 2D flood model for post-flood hazard analysis", American Geophysical Union (AGU) Fall Meeting, 2017. Poster/ Tigstu TSIGE Dullo, Sudershan Gangrade, Ryan Marshall, Sheikh R Islam, Sheikh K Ghafoor, Shih-Chieh Kao, and Alfred J Kalyanapu, "A large-scale simulation of climate change effects Abstract on flood regime-A case study for the Alabama-Coosa-Tallapoosa River Basin", American Geophysical Union (AGU) Fall Meeting, 2017. 2016 TT Dullo, AJ Kalyanapu, S Gangrade, R Marshall, SR Islam, SK Ghafoor, SC Kao, and BL Poster/ Preston, "Development of an Integrated DHSVM-Flood2D-GPU modeling framework - A **Abstract** Case Study for the Alabama-Coosa-Tallapoosa River Basin", American Geophysical Union (AGU) Fall Meeting, 2016. 2012 Tanzeem Bin Noor, Md Rounok Salehin, Sheikh Rabiul Islam, "A clustering scheme for peer-Journal Paper to-peer file searching in mobile ad hoc networks", International Journal of Advanced Research in Computer and Communication Engineering, 2012. PROFESSIONAL SERVICES President, Computer Science Graduate Club 2018-present Member, IEEE 2018-present Member, Computer Science Student Advisory Council 2018-present

2018

VOLUNTEER ACTIVITIES

Participant, Keep Putnam County Beautiful – Clean Commission

Volunteer and Substitute Mentor, The Governor's School for Emerging Technologies

Summer,2017

• Volunteer, Integrating Parallel and Distributed Computing in Introductory Programming Classes (iPDC)

Summer,2016

Last update: Nov 14, 2018.