## **CURRICULUM VITAE**

Sheikh Rabiul Islam
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#### **EDUCATION**

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

#### RESEARCH INTERESTS

### 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:
  - High-Performance Computing Workshop at ORNL
  - Oracle Database SQL Certified Expert (2013)
  - o 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.

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

### **PUBLICATIONS**

## 2018

Sheikh Rabiul Islam, Sheikh Khaled Ghafoor, and William Eberle, "Mining Illegal Insider Trading of Stocks: A Proactive Approach", IEEE Big Data, 2018.
 Md Mosharaf Hossain, Thomas M. Hinos, Sheikh Rabiul Islam, Sheikh K. Ghafoor, and

Md Mosharaf Hossain, Thomas M. Hines, **Sheikh Rabiul Islam**, Sheikh K. Ghafoor, and Ramakrishnan Kannan, "A Flexible-blocking Based Approach for Performance Tuning of Matrix Multiplication Routines for Large Matrices with Edge Cases", *The 2nd Workshop on* 

Conference Paper

Paper

Conference

Benchmarking, Performance Tuning and Optimization for Big Data Applications (BPOD), IEEE Biq Data, 2018.

Sheikh Rabiul Islam, William Eberle, and Sheikh Khaled Ghafoor, "Credit Default Mining Using Combined Machine Learning and Heuristic Approach", 14th Int. Conference on Data Science (ICDATA'18),2018.

Conference Paper

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, ShihChieh Kao, and Alfred J. Kalyanapu, "The Vulnerability of Critical Energy Infrastructures to Climate Change induced Flooding: A Case Study for the Conasauga River basin", 27th Tennessee Water Resources Symposium, 2018.

Poster/ Abstract

#### 2017

Sheikh Rabiul Islam, William Eberle, and Sheikh Khaled Ghafoor, "Mining Bad Credit Card Accounts from OLAP and OLTP", ACM International Conference on Compute and Data Analysis (ICCDA'17), 2017.

Conference Paper

AJ Kalyanapu, TT Dullo, S Gangrade, SC Kao, R Marshall, SR Islam, and SK Ghafoor, "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 on flood regime-A case study for the Alabama-Coosa-Tallapoosa River Basin", American Geophysical Union (AGU) Fall Meeting, 2017.

Poster/ Abstract

### 2016

TT Dullo, AJ Kalyanapu, S Gangrade, R Marshall, SR Islam, SK Ghafoor, SC Kao, and BL Preston, "Development of an Integrated DHSVM-Flood2D-GPU modeling framework - A Case Study for the Alabama-Coosa-Tallapoosa River Basin", American Geophysical Union (AGU) Fall Meeting, 2016.

Poster/ Abstract

### 2012

Tanzeem Bin Noor, Md Rounok Salehin, Sheikh Rabiul Islam, "A clustering scheme for peerto-peer file searching in mobile ad hoc networks", International Journal of Advanced Research in Computer and Communication Engineering, 2012.

Journal Paper

#### PROFESSIONAL SERVICES

President, Computer Science Graduate Club

2018-present

Member, IEEE

2018-present

Member, Computer Science Student Advisory Council

2018-present

## **VOLUNTEER ACTIVITIES**

Participant, Keep Putnam County Beautiful – Clean Commission

2018

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