MD TAHMID RASHID

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TECHNICAL SKILLS

- Machine Learning, Deep Learning, Predictive Analysis, Data Mining, Data Visualization, Distributed Systems
- **Programming Languages:** Python, MATLAB, R, C, Java
- **Tools:** pandas, scikit-learn, AWS (EC2, S3, Lambda), Tensorflow, Keras, NLTK, YOLOv3, MapReduce, Hadoop, Spark
- **Databases:** MySQL, PostgreSQL
- **Operating Systems:** Windows, Mac, and Linux

EDUCATION

University of Notre Dame, Notre Dame, IN, USA
Ph.D. in Computer Science and Engineering — Aug. 2018 - May 2023 (expected)
M.S. in Computer Science and Engineering — Aug. 2018 - Apr. 2022

BRAC University, Dhaka, Bangladesh
B.S. in Electrical and Electronic Engineering — Jan. 2012 - Apr. 2015

PROFESSIONAL EXPERIENCE

Graduate Research Assistant | **Dept. of CSE, University of Notre Dame, Notre Dame, IN, USA** Aug. 2018-Present
- Melded massive data from social media and hardware sensors for smart urban sensing and situational awareness using *Python, scikit-learn, Tensorflow,* and *AWS.*
- Developed social-physical sensing (SPS) frameworks to interpret and present disaster events using *Ardupilot* and *PyQt5*

Lecturer | **Department of EEE, Northern University Bangladesh, Dhaka, Bangladesh** Jan. 2017 - Jun. 2018

System Design Engineer | **SoftwindTech Limited, Dhaka, Bangladesh** Jul. 2015 - Dec. 2016
- Developed and interfaced embedded hardware for interactive systems using *ATmega microcontroller, Arduino, Raspberry Pi, C, Python* and *PostgreSQL.*

AWARDS AND HONORS

- Video Presentation Award, ACM/IEEE IWQoS 2020 — June 2020
- Outstanding Graduate Teaching Assistant, University of Notre Dame — Apr 2020
- Best Paper Award, IEEE R10 HTC 2015 — Dec 2015
- IEEE SIGHT Travel Grant, IEEE R10 Congress 2015 — Jul 2015

SELECTED SCHOLARLY PUBLICATIONS

Google Scholar Link: `https://scholar.google.com/citations?user=Lj52wsUAAAAJ&hl=en`

1. **Rashid, M. T.**, & Wang, D. (2022). SEIS: A spatiotemporal-aware event investigation framework for social airborne sensing in disaster recovery applications. Pervasive and Mobile Computing, 87, 101717 (Impact Factor 3.8).
2. **Rashid, M. T.**, & Wang, D. (2021, October). Unravel: An Anomalistic Crowd Investigation Framework Using Social Airborne Sensing. IPCCC 2021 (pp. 1-10). IEEE.
3. **Rashid, M. T.**, Zhang, D. Y., & Wang, D. (2021, July). HeteroSAS: A Heterogeneous Resource Management Framework for "All-in-the-Air" Social Airborne Sensing in Disaster Response. DCOSS 2021 (pp. 132-139). IEEE.
4. **Rashid, M. T.**, Zhang, D. Y., & Wang, D. (2020, July). Socialdrone: An integrated social media and drone sensing system for reliable disaster response. In IEEE INFOCOM 2020 (pp. 218-227). IEEE(Acceptance rate: 19.8%).
5. Zhang, D., Vance, N., Zhang, Y., **Rashid, M. T.**, & Wang, D. (2019, December). Edgebatch: Towards ai-empowered optimal task batching in intelligent edge systems. RTSS 2019 (pp. 366-379). IEEE.

PROFESSIONAL SERVICES

- IEEE SIGHT Representative (IEEE R10 Congress 2015)
- Reviewer of IEEE VTC 2022, Journal of Medical Artificial Intelligence (JMAI), Frontiers in Psychology, Artificial Intelligence Review (AIRE), and Information Systems (INFOSYS)