

Mohammad Raihan Uddin

✉ mu0016@uah.edu ✉ mkraihan13@gmail.com
🐦 @RaihanAkash0 in mdraihanuddin
📞 mohammadraihanuddin 📞 929 713 6052
✉ 5173, Laurelwood Ln NW, Huntsville, Alabama -35816, USA



Employment History

- January, 2024 – **Graduate Teaching Assistant**, ECE, The University of Alabama in Huntsville.
- May, 2019 – November, 2023 **Researcher**, Networking, Intelligence, and Security Lab (NIS Lab).
- April, 2017 – June, 2019 **IT System Engineer**, Pridesys IT Ltd.
- Assistant **IT System Engineer**, Pridesys IT Ltd.

Education

- Spring, 2024 – ... **M.Sc in Computer Engineering**, The University of Alabama in Huntsville, AL, USA.
- 2013 – 2017 **B.Sc in Electronics & Telecommunication Engineering**, Daffodil International University, Dhaka, Bangladesh.
- 2010 – 2012 **Higher Secondary Certificate-HSC**, Rajarbag Police Lines School & College, Dhaka, Bangladesh.
- 2005 – 2010 **Secondary School Certificate-SSC**, Dulalpur CM High School, Dhaka, Bangladesh.

Awards

- 2024 **Boeing Engineering Annual Scholarship.**
- 2015 **1st Runner-up**, NET-WAR at Teleco Warfare.

Research Interest

- ML, AI, Wireless Communication, and Privacy & Security**

Research Publications

Conference Proceedings

- 1 M. Arefin, M. Uddin, N. A. Evan, M. R. Alam, *et al.*, “Enterprise network: Security enhancement and policy management using next-generation firewall (ngfw),” in *Computer Networks, Big Data and IoT*, Springer, 2021, pp. 753–769.
- 2 M. Uddin, N. A. Evan, M. R. Alam, M. Arefin, *et al.*, “Analysis of generic routing encapsulation (gre) over ip security (ipsec) vpn tunneling in ipv6 network,” in *International Conference on Ubiquitous Communications and Network Computing*, Springer, 2021, pp. 3–15.
- 3 S. K. Dey, R. Uddin, M. Rahman, *et al.*, “Performance analysis of sdn-based intrusion detection model with feature selection approach,” in *Proceedings of international joint conference on computational intelligence*, Springer, 2020, pp. 483–494.

- 4 N. F. Firoz, M. Arefin, M. Uddin, *et al.*, "Performance optimization of layered signature based intrusion detection system using snort," in *International Conference on Cyber Security and Computer Science*, Springer, 2020, pp. 14–27.
- 5 M. R. Uddin, K. M. Kabir, and M. T. Arefin, "Artificial neural network inducement for enhancement of cloud computing security," in *2019 1st International Conference on Advances in Science, Engineering and Robotics Technology (ICASERT)*, IEEE, 2019, pp. 1–6.
- 6 S. K. Dey and M. M. a. U. M. R. Rahman, "Detection of flow based anomaly in openflow controller: Machine learning approach in software defined networking," in *2018 4th International Conference on Electrical Engineering and Information & Communication Technology (iCEEiCT)*, IEEE, 2018, pp. 416–421.
- 7 S. K. Dey, M. R. Uddin, K. M. Kabir, and M. M. Rahman, "Enhancing the security of cloud computing: Genetic algorithm and qr code approach," in *2017 4th International Conference on Advances in Electrical Engineering (ICAEE)*, IEEE, 2017, pp. 181–186.
- 8 M. R. Uddin, K. M. Kabir, and M. M. Hasan, "Data security throws image processing by blowfish algorithm, genetic algorithm and lsb," 1, vol. 148, *Foundation of Computer Science*, 2016.

Under Review

- **M. R. Uddin, D. C. Nguyen**, (2024). False Data Injection Attack Detection in Edge-based Smart Metering Networks with Federated Learning. **IEEE Consumer Communications & Networking Conference**.
- **M. R. Uddin, D. C. Nguyen**, (2024). Unmanned Aerial Vehicles (UAVs): A State of the Art Survey. **IEEE Communications Surveys & Tutorials**.

Skills

Main Programming Languages	■ Python, MATLAB, C.
Frameworks and Codebases	■ PyTorch, Tensorflow, Scikit-Learn, Keras, Google Infrastructure, Tensor Parallelism.
Technical	■ Cisco, RedHat, AWS, Docker, Kubernetes, MySQL, and L ^A T _E X typesetting.
Governance	■ Leadership, Lobbying, Strategic Planning, Communication, Negotiation, Public Speaking, and Diplomacy.
Misc.	■ 10+ years experience with Linux Systems, Academic research, teaching, training, consultation, and Speaking Language - English & Bengali.

Miscellaneous Experience

Certification

2019 ■ **Red Hat Certified System Administrator (RHCSA)**. Awarded by Red Hat.









Professional Courses and Training

2016 ■ **Cisco Certified Network Administration**.
 2018 ■ **Red Hat Certified System Administrator (RHCSA)**.
 2019 ■ **Red Hat Certified Engineer (RHCE)**.
 2020 ■ **Docker Certified Associate (DCA)**.
 2021 ■ **AWS Certified Solutions Architect Associate**.










Miscellaneous Experience (continued)

2022  Certified Kubernetes Administrator (CKA).

Professional Membership

-  Secretary, UAH Graduate Student Association.
-  President, UAH Bangladeshi Student Association.
-  Graduate Student Member, IEEE.
-  Graduate Student Member, IEEE Communication Society.
-  Graduate Student Member, IEEE computer Society.
-  Student Member, Internet Society.
-  President, House of Youth Dialogue-HYD.
-  Life Member, Institute of Engineers Bangladesh (IEB).

Extracurricular Activities

-  Head Organizer, TEDxUA Huntsville 2024.
-  Convener, House of Youth Dialogue Model United Nations 2023.
-  Secretary General, Bangabandhu Model United Nations 2023.
-  Convener, House of Youth Dialogue General Assembly 2023.
-  Deputy Secretary General, Bangabandhu Model United Nations 2022.
-  Convener, Sustainable Development Goals Model United Nations 2022.
-  Director General, House of Youth Dialogue Model United Nations 2021.
-  Convener, House of Youth Dialogue Entrepreneurs' Hive 2021.
-  Convener, League of Regime Diplomacy Model United Nations 2020 (LORDMUN IV).
-  Convener, House of Youth Dialogue Model United Nations 2019.
-  USG, Sustainable Development Goals Model United Nations 2019.
-  Co-Founder of "Toru Chaya" (an organization for Rural Child).
-  Theater Stage performer, Nagorik Nattaya Samproday.
-  Cycling.
-  Acoustic Guitarist.
-  Photography.
-  YouTube Content Creator.

References

Dr. Dinh C. Nguyen

Assistant Professor
Department of Electrical and Computer Engineering
The University of Alabama in Huntsville
Contact No: +1 256 824 6258
dcn0006@uah.edu

Md. Taslim Arefin

Associate Professor & Head
Department of Electronics and Telecommunication
Engineering
Faculty of Engineering
Daffodil International University
Contact No: +880 171 122 7391
arefin@daffodilvarsity.edu.bd