Mohammad Raihan Uddin

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

Employment History

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

Research Interest

🔖 **ML, AI, IoT, Privacy & Security, and Wireless Communication**

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.

Accepted

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**.

Under Review

M. R. Uddin, D. C. Nguyen, (2024). From Federated Learning to Quantum Federated Learning for Space-Air-Ground Integrated Networks. **IEEE Conference on Standards for Communications and Networking**.

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 LaTeX 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 Contain 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