

# Mohammad Raihan Uddin

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## Employment History

- January, 2024 – . . . . **Graduate Teaching Assistant**, ECE, The University of Alabama in Huntsville.
- 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 **HSC**, Rajarbag Police Lines School & College, Dhaka, Bangladesh.
- 2005 – 2010 **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

Languages	■ English, Bangla.
Coding	■ MATLAB, C, Python, Scripting $\LaTeX$ ,
Technical	■ CCNA, RedHat, AWS, Docker, Kubernetes, MySQL.
Governance	■ Leadership, Lobbying, Strategic Planning, Communication, Negotiation, Public Speaking, and Diplomacy.
Misc.	■ Academic research, teaching, training, consultation, $\LaTeX$ typesetting, and publishing.

## Miscellaneous Experience

### Certification

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

### 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**.
- 2022 ■ **Certified Kubernetes Administrator (CKA)**.

### Professional Membership

- Secretary, UAH Graduate Student Association.
- President, UAH Bangladeshi Student Association.
- Graduate Student Member, IEEE.

## Miscellaneous Experience (continued)

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- 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

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### Dr. Dinh C. Nguyen

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### Md. Taslim Arefin

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