

# Nazmus Sakib

Department of Computer Science @ University of Colorado, Colorado Springs (UCCS)  
1420 Austin Bluffs Pkwy Colorado Springs, CO USA 80918  
+1 (719) 412-8216    nsakib@uccs.edu

## Summary

- Graduate Research Assistant (GRA), PhD in Security at UCCS
- Research Interest: Security, Networking, Blockchain, Distributed System, Machine Learning
- Google Scholar: <https://scholar.google.com/citations?hl=en&user=tAkzzeoAAAAJ>
- Citations - 111

## Education

<b>Ph.D. in Security</b> <i>University of Colorado, Colorado Springs</i>	<i>Spring 23-continue</i>
<b>M.S in Computer Science (Research)</b> <i>University of Malaya, Malaysia</i>	<i>2018–2020</i>
<b>B.Sc. (Engineering) in Computer Science and Engineering</b> <i>Shahjalal University of Science and Technology, Bangladesh</i>	<i>2008–2011</i>

## Professional Appointments

### Academic, Research, and Industry

<b>Graduate Research Assistant</b> Department of Computer Science University of Colorado, Colorado Springs	<i>June 2023 to Continue</i>
<b>CS Department Teaching Assistant</b> <i>Department of Computer Science</i> University of Colorado, Colorado Springs	<i>January-May, 2023</i>
<b>Research Assistant</b> <i>Software Engineering Research Lab</i> University of Malaya, Malaysia	<i>2018-2019</i>
<b>Assistant Professor, Department of Computer Science and Engineering</b> <i>Dhaka International University</i> Dhaka, Bangladesh	<i>2021-2022</i>
<b>Lecturer, Department of Computer Science and Engineering</b> <i>Dhaka International University</i> Dhaka, Bangladesh	<i>2014-2017</i>
<b>Junior Software Engineer</b> <i>MicroMac Techno Valley Ltd</i> Dhaka, Bangladesh	<i>2013</i>

## Awards and Honors

---

- **Mentored Doctoral Fellowship (AY 24-25)**, UCCS.
- **Research Fellow (2018)**, Bangabandhu Science and Technology Fellowship Trust, Ministry of Science and Technology, People's Republic of Bangladesh.

## Publications

---

### Running Projects

1. Security Investigation of Address Manager in Bitcoin P2P Network. **Project Lead.**
2. Machine Learning Approach to Reputation Management in Bitcoin Peer-to-Peer Network. **Project Lead.**

### Peer Reviewed Journals:

1. Islam, Amanul, Fazidah Othman, **Nazmus Sakib**, and Hafiz Md Hasan Babu. "Prevention of shoulder-surfing attacks using shifting condition using digraph substitution rules." arXiv preprint arXiv:2305.06549 (2023).  
<https://arxiv.org/abs/2305.06549>
2. **Sakib, Nazmus**, et al. "A hybrid personalized scientific paper recommendation approach integrating public contextual metadata." **IEEE Access** 9 (2021): 83080-83091.  
<https://ieeexplore.ieee.org/abstract/document/9447723>
3. **Sakib, Nazmus**, et al. "A collaborative approach toward scientific paper recommendation using citation context." **IEEE Access** 8 (2020): 51246-51255.  
<https://ieeexplore.ieee.org/abstract/document/9035495>

### Peer Reviewed Conferences:

1. Amanul Islam, **Nazmus Sakib**, Kelei Zhang, Simeon Wuthier, and Sang-Yoon Chang. "Network Fingerprinting Using Machine Learning for Anonymous Networking Detection in Cryptocurrency". **Accepted** in IEEE Consumer Communications and Networking Conference (CCNC), 2025.
2. **Sakib, Nazmus**, Simeon Wuthier, Xiaobo Zhou, and Sang-Yoon Chang. "From Slow Propagation to Partition: Analyzing Bitcoin Over Anonymous Routing." In IEEE International Conference on Blockchain and Cryptocurrency ICBC. IEEE, 2024.  
<https://ieeexplore.ieee.org/abstract/document/10634476>
3. Wuthier, S., **Sakib, Nazmus**, & Chang, S. Y. (2024, January). Positive Reputation Score for Bitcoin P2P Network. In 2024 IEEE 21st Consumer Communications & Networking Conference (CCNC). IEEE.  
<https://ieeexplore.ieee.org/abstract/document/10454756>
4. Hossain, Md Shamim, and **Nazmus Sakib**. "Renal cell cancer nuclei segmentation from histopathology image using synthetic data." 2020 16th IEEE International Colloquium on Signal Processing & Its Applications (**CSPA**). IEEE, 2020.  
<https://ieeexplore.ieee.org/abstract/document/9068701>
5. Rahman, Md Mahabubur, Md Masud Rana, Md Shamim Anower, **Nazmus Sakib**, Kisalaya Chakrabatri, and Alok Kumar Paul. "An SPR-based optical biosensor with shared plasmonic materials and optimized graphene layer: An angular interrogation approach." In 2020 IEEE Region 10 Symposium (**TENSYMP**), pp. 1680-1683. IEEE, 2020.  
<https://ieeexplore.ieee.org/abstract/document/9230632>

## Dissertations

1. Thesis: "**A Personalized Scientific Paper Recommendation Model Using Contextual Information**" under the supervision of Dr. Rodina Binti Ahmad, Associate Professor, Department of Software Engineering, University of Malaya."
2. Thesis: "**E-Government Model in Bangladesh: An NID Based Framework**" under the supervision of Israt Jahan, Lecturer, Department of Computer Science and Engineering, Shahjalal University of Science and Technology."

## Selected Talk

February 28, 2020

*Renal Cell Cancer Nuclei Segmentation from Histopathology Image Using Synthetic Data*  
2020 16th IEEE International Colloquium on Signal Processing & Its Applications (CSPA)

January 7, 2024

Positive Reputation Score for Bitcoin P2P Network  
IEEE 21st Consumer Communications & Networking Conference (CCNC)

## Leadership Experience and Professional Service

January 2023 - Present

IEEE Student member

January 2023 - Present

Member, Bangladesh Student Association at UCCS

## Graduate Courses

---

### Fall-24 (Running):

**CS5220** Computer Communication (Units 3.00)

**CS5985** Cybersecurity Metrics (Units 3.0)

### Spring-24 (Completed):

**CS5080** Reinforcement Learning (Units 3.00) – Earned Grade – **B+**

**CS5740** Networks, Crowds, and Market (Units 3.0) – Earned Grade – **B+**

### Fall-23 (Completed):

**CS5910** Fundamental of Computer/Network Security (Units 3.00) - Earned Grade – **A**

**CS6000** Computer Science Research (Units 3.00) - - Earned Grade – **B+**

### Spring-23 (Completed):

**CS5920** Introduction to Applied Cryptography (Units 3.00) - Earned Grade – **A**

**CS5950** Homeland Security and Cyber Security (Units 3.00) - Earned Grade – **A**

## References

Available on Request