

MUNSHI SAIFUZZAMAN

Utah State University | 518.253.2527

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RESEARCH INTERESTS

♣ Mobile Networks and Systems, Wearable Data Sharing, Data Privacy, Differential Privacy with Machine Learning, Cyber Security.

APPOINTMENT

♣ Utah State University <i>Graduate Teaching Assistant</i>	Logan, UT Aug 24 - Present
♣ Dynamic Solution innovators Limited <i>Junior & Associate Software Engineer</i>	Dhaka, BD May 21 - Jul 24
♣ Daffodil International University <i>Adjunct Lecturer (Part-time)</i>	Dhaka, BD Jul 22 - Dec 22
♣ Shahjalal University of Science & Technology <i>Undergraduate Research Assistant</i>	Dhaka, BD Jul 20 - Nov 20
♣ WIB Corporation <i>Software Engineer (Intern)</i>	Remote Jul 20 - Aug 20
♣ Shahjalal University of Science & Technology <i>Undergraduate Research Assistant</i>	Dhaka, BD Aug 18 - Dec 18

EDUCATION

♣ Utah State University <i>Doctor of Philosophy in School of Computing</i> <ul style="list-style-type: none">♣ CGPA: 4.0 (A) on a scale of 4.00♣ Topic: Mobile Networks and Systems	Sylhet, BD Aug 24 - May 29
♣ Shahjalal University of Science and Technology <i>BSc.(Engg.) in Computer Science and Engineering</i> <ul style="list-style-type: none">♣ CGPA: 3.79 (A) on a scale of 4.00 (Last 2 years GPA: 3.90/4.00)♣ 6th in class of 107 students	Sylhet, BD Feb 16 - Jun 21

HONORS AND AWARDS

♣ Graduate Office Fellowship	2024, 2025
♣ Best Young Entrepreneurs	2018
♣ Government Student Scholarship	2009, 2014

FULL PUBLICATIONS

♣ Conferences

C1. TBA

♣ Journals

- J1. Hasan, Syed Mhamudul, Taminul Islam, **Munshi Saifuzzaman**, Khaled R. Ahmed, Chun-Hsi Huang, and Abdur R. Shahid. "Carbon Emission Quantification of Machine Learning: A Review." *IEEE Transactions on Sustainable Computing* (2025). (Impact Factor: 3.9)
- J2. **Saifuzzaman, Munshi**, Tajkia Nuri Ananna, Mohammad Javed Morshed Chowdhury, Md Sadek Ferdous, and Farida Chowdhury. "A systematic literature review on wearable health data publishing under differential privacy." *International Journal of Information Security* 21, no. 4 (2022): 847-872. (Impact Factor: 3.2) DOI: [10.1007/s10207-021-00576-1](https://doi.org/10.1007/s10207-021-00576-1)

♣ Book Chapters

- B1. **Saifuzzaman, Munshi**, and Tajkia Nuri Ananna. 'Introduction to machine learning.' In *Advances in Computers*, vol. 137, pp. 37-90. Elsevier, (2025). DOI: [10.1016/bs.adcom.2024.06.005](https://doi.org/10.1016/bs.adcom.2024.06.005)
- B2. **Saifuzzaman, Munshi**, and Tajkia Nuri Ananna. 'Toward smart healthcare: challenges and opportunities in IoT and ML.' In *IoT and ML for information management: A smart healthcare perspective*, pp. 325-355. Singapore: Springer Nature Singapore, (2024). DOI: [10.1007/978-981-97-5624-7_10](https://doi.org/10.1007/978-981-97-5624-7_10)
- B3. Ananna, Tajkia Nuri, and **Munshi Saifuzzaman**. 'Introduction to Internet of Things.' In *IoT and ML for Information Management: A Smart Healthcare Perspective*, pp. 1-49. Singapore: Springer Nature Singapore, (2024). DOI: [10.1007/978-981-97-5624-7_1](https://doi.org/10.1007/978-981-97-5624-7_1)
- B4. Ananna, Tajkia Nuri; **Saifuzzaman, Munshi**; Chowdhury, Mohammad Javed Morshed; Ferdous, Md Sadek: 'Managing health insurance using blockchain technology' (Healthcare Technologies, 2022), 'Blockchain Technology in e-Healthcare Management', Chap. 4, pp. 89-125, DOI: [10.1049/PBHE048E_ch4](https://doi.org/10.1049/PBHE048E_ch4)

TEACHING EXPERIENCE

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| ♣ CS 2610: Developing Dynamic, Database-Driven, Web Applications
TA, Utah State University | F24, S25, F25 |
| ♣ CSE 124: Business Application Design
Instructor, Daffodil International University | F22 |
| ♣ CSE 216: Software Project II (Web Technology)
Instructor, Daffodil International University | F22 |

ACADEMIC SERVICE

♣ Conference Reviewer

- ♣ IEEE DSC'2025

♣ Journal Co-reviewer

- ♣ Free5GC World Forum'25, IEEE Transactions on Reliability, IEEE Transactions on Vehicular Technology, Springer Nature Cybersecurity

TECHNICAL SKILLS

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| ♣ Programming Language: Java, Python 3, C, C++ | ♣ Presentation: Beamer, MS PowerPoint |
| ♣ Scripting: LaTeX, HTML, CSS, JavaScript | ♣ Frameworks & Tools: Android, TailwindCSS, Jupyter, Docker, Next.js, Spring Boot, MS Excel, Pandas, Firebase, MSSQL Server, DBeaver, Azure Data Studio, Postman, Streamlit, Django |
| ♣ Others: Version Control (Git), Object Oriented Programming, Linux, Windows, SQL | |

LEADERSHIP SKILLS

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| ♣ Class Representative | Feb 17 – Aug 21 |
| To facilitate a sound academic experience, worked as a bridge for four consecutive years between the class and the course instructors and provided announcements, decisions, concerns, notices between them. | |
| ♣ General Member | Feb 17 – Aug 21 |
| Volunteered as a member of CSE Society SUST, where led volunteers and gathered as needed and helped out during five different fairs held by the society. | |

ACADEMIC PROJECTS

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| ♣ Fury in Motion Python Streamlit | Spring 25 |
| An interactive visualization platform for tornado patterns across the US by selecting various filters to explore tornado intensity, path, weather data, and more. [Project Link , Demo Link] | |
| ♣ Digital Laundry Java, Android, Firebase | Summer 18, Fall 18 |
| Digitalized laundry process to get laundry system on our doorstep. [Project Link] | |
| ♣ ChitChat P2P Messaging App Java, Android | Fall 24 |
| Network layer messenger application runs on Android environment. It Supports only P2P data exchanging using Java Socket. [Project Link , Demo Link] | |
| ♣ Question Answering App Java, Android, Firebase | Spring 20 |
| Anonymous system of collecting data from people. Mainly 2 types of answers can be collected: MCQ and short written answers. [Project Link] | |
| ♣ SUST Online Examination System Frontend React, Bootstrap | Fall 20, Spring 21 |
| Developed an online platform (frontend) for my university examination system. This project will be used for taking exams and assignments for my undergrad university. [Project Link] | |
| ♣ AI Player Java, MySQL, Android | Spring 20 |
| Voice-controlled music player along with an exciting UI. Can pause, play songs using voice. Additionally next and previous songs can be played using voice and vibration. [Project Link] | |
| ♣ CV Generator Java Swing, SQLite | Spring 18 |
| Extracted CV as pdf on giving information. | |

RESEARCH PROJECTS

♣ **Extensive analysis on Question Answering Framework | Python** Spring 20
Explored recent studies in Question Answering System, therefore experimented with three distinct models (BERT, DistilBERT, distilbert-base-uncased-distilled-squad). [[Project Link](#)]

♣ **Wine Quality Test | Python** Spring 20
Build an interface to predict the quality of the red wine. (Through data mining approach). [[Project Link](#), [Demonstration Link](#)]

LICENSE and CERTIFICATIONS

♣ Coursera

Details: Machine Learning [[Credential Id: GJM4HBC5DYWF](#)], Introduction to Git and GitHub [[Credential Id: 28DUAWHTMU6G](#)].

♣ Cisco Networking Academy

Details: Introduction to Cybersecurity [[Credential Id: 1009771690](#)].

REFERENCE(s)

♣ **Prof. Tian Xie**
(PhD Advisor)
Assistant Professor,
School of Computing
Utah State University, Logan, UT 84322
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♣ **Dr. Md. Javed Morshed Chowdhury**
(Undergrad Thesis Advisor)
Senior Lecturer,
Department of Computer Science and IT
La Trobe University, Bundoora VIC 3086,
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♣ **Prof. Farida Chowdhury**
(Undergrad Course Instructor and Thesis Advisor)
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