Romana Mahjabin Eshita

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Research Interest

Bockchain, Distributed System, Applied Cryptography, Cybersecurity

Research Experience

March 2020-March 2021   **Research Assistant** | SUBSEL (Shahjalal University Blockchain and Security Laboratory)
Research Supervisor: Dr. Md. Sadek Ferdous
- Developed a Blockchain-based dynamic identity federation.
- Modified the SimpleSAMLphp to allow parties to join the federation in real-time.
- Used Hyperledger-fabric for Blockchain part.

Education

Jan 2016 - Feb 2020   **BSc. (Engineering) in Computer Science** Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh
CGPA: **3.19**/4.00

Research Publications

- Alom, I., **Eshita, Romana Mahjabin**, Ibna Harun, A., Ferdous, M. S., Kamrul Bashar Shuhan, M., Chowdhury, M. J. M., & Shahidur Rahman, M. (2021). Dynamic management of identity federations using blockchain. In *2021 ieee international conference on blockchain and cryptocurrency (icbc)* (pp. 1–9). 🔗 doi:10.1109/ICBC51069.2021.9461128

Research Projects

Jan 2019 - Feb 2020   **A Web of Trust Model and its Application Leveraging Blockchain Technology**

- Proposed a transaction-based verification process using both private and public blockchains.
- A trust score algorithm has been designed based on the verification process.
- Developed a peer-to-peer lending web application that uses the proposed trust score system.

Academic Projects

July 2018 – December 2018   **Vote | Nodejs API, Hyperledger-fabric, Go, Bootstrap**
- A decentralized, scalable, and secure blockchain-based E-Voting web application that included all of the standard system features.

July 2017 – December 2017   **Magic Remote | Java, Android**
- A Bluetooth-enabled software to control laptop or desktop computers remotely from a mobile device.

Skills

Languages	Go, C/C++, Java, Python, JavaScript, HTML/CSS
Frameworks	React, Material-U
Developer Tools	Git, Docker, AWS
Libraries	Matplotlib, NumPy, Scikit Learn

Honors and Awards

2019	Shahjalal University of Science and Technology Annual Sports Scholarship
2016-2020	**Governmental Merit Scholarship**, Higher Secondary School Certificate
2019-2020	**Chair, WIE (Women In Engineering) Affinity Group**, IEEE SUST Student Branch
	Vice-Chair, IEEE Computer Society SUST Chapter

Activities

2018-2019	**Captain**, Inter Department Women's Handball and Volleyball team
2017 -2020	**Founding Organizing Secretary**, Nobigonj Student Association, SUST
2019	**Participated in Code Samurai**, An inter-university Hackathon
2017	**Participated with team**, National Girls Programming Contest 2017