

Sourav Majumder

Laramie, Wyoming, USA

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🌐 [Majumder99](#) [in msourav99](#) [🎓 Google Scholar](#)

EDUCATION

University of Wyoming, Laramie, Wyoming, USA

PhD in Computer Science

January 2026 - Present

Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh

BSc in Computer Science and Engineering

January 2019 - March 2024

CGPA: 3.54

RESEARCH INTERESTS

My research interests lie in the field of blockchain technology, with a specific focus on:

- **Blockchain systems security**
- **P2P transaction propagation**
- **Cryptographic security**
- **Cybersecurity**
- **Privacy-preserving technologies**

RESEARCH EXPERIENCE

University of Wyoming, WY, USA

Graduate Research Assistant

January 2026 - Present

Khulna University of Engineering & Technology (KUET), Khulna, Bangladesh

Undergraduate Researcher

January 2023 - March 2024

Mentor: [Dr. M.M.A. Hashem](#)

Topic: **Optimizing Hyperledger Framework for High Transactions Throughput in Private Blockchain**

Description: We changed the different parameters of the hyperledger fabric framework to gain the maximum throughput. We used GoLang to write chaincode and created a Nodejs server to communicate with our chaincode.

PUBLICATIONS

Ankan Saha, [Sourav Majumder](#), Md. Motaleb Hossen Manik, and M.M.A. Hashem, [Enhancing Hyperledger Fabric: A Scalable Framework for Optimized Blockchain Performance](#), In 2024 27th International Conference on Computer and Information Technology (ICCIT), pp. 1-6. IEEE, 2024.

[Sourav Majumder](#), Resam Zaha, Md. Motaleb Hossen Manik, and Kazi Md. Rokibul Alam, [A Blockchain Based Scalable Framework for Academic Document Verification](#), In 2023 26th International Conference on Computer and Information Technology (ICCIT), pp. 1-6. IEEE, 2023.

UNDERGRADUATE PROJECTS

- **Document Verification System Using Public Blockchain**
Supervisor: **Dr. Kazi Md. Rokibul Alam**
Technologies: Solidity, Javascript, Hardhat, Ethers.js, Metamask
Description: Developed a decentralized system for verifying academic documents using the Ethereum blockchain. Integrated hashing techniques to detect fraudulent documents.
- **Chat Application using PHP**
Description: Created a chatting interface for users. Features include adding friends, deleting friends, and chatting with friends.
- **Automatic Plant Watering System using C++**
Description: Developed a hardware-based automatic plant watering system using Arduino. Automatically pumps water when soil moisture levels are low.
- **Bank Database Project using MySQL**
Description: Implemented a secure bank database system with advanced SQL features.
- **3D Resort**
Description: A 3D resort created using OpenGL V2.
- **Compiler Project**
Description: Created a simple compiler using Flex and Bison.
- **Mancala Game**
Description: Created a game using the alpha-beta algorithm in Python, featuring two modes: Player vs Player and AI vs Player.

PROFESSIONAL EXPERIENCES

Software Engineer, Zatiq Limited

March 2024 - March 2025

- Worked on backend development using Laravel with a focus on secure transaction processing.
- Implemented multiple dashboards using Next.js and RTK query with proper security protocols for handling financial transactions.

Intern, trayn.ca

September 2023 - March 2024

- Developed a browser extension using JavaScript with a focus on user data privacy.
- Built secure frontend interfaces for the PDA project using ReactJs.
- Set up a proxy server ensuring secure data transmission.

AWARD

Dean's award, 2020 - 2021

ACTIVITY

Joint Secretary, Bit2Byte, KUET

Jan 2023 - Jan 2024

- Organized blockchain and security workshops for junior students.

Languages & Certification

Bangla: Native

English: Proficient

IELTS: Overall Band 7.5 (No band less than 6.5)