

# RUHUL AMIN

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E-mail : ruhulamin010398@gmail.com



## EDUCATION

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- **SEC, affiliated with Shahjalal University of Science & Technology - SUST** Tilagor, Sylhet  
*BSc in Computer Science & Engineering; CGPA: 3.61/4.00*  
Feb 2023
- **Blue Bird School & College** Sylhet  
*HSC; GPA: 4.25/5.00*  
2016
- **Habiganj Govt High School** Habiganj  
*SSC; GPA: 5.00/5.00*  
2014

## WORK EXPERIENCE

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- **Lecturer** Sylhet, Bangladesh.  
*Sylhet International University*  
June 2023 - Present
- **Research Assistant** Sylhet, Bangladesh  
*Shahjalal University of Science & Technology - SUST*  
May 2023 - Present  
*Supervisor: Professor Dr. Md Forhad Rabbi, SMIEEE*  

Engaged in blockchain research, specializing in interoperability mechanisms. Contributed to research papers, focusing on blockchain, IoT, and ML. Assisted in experiment planning, data analysis, and presented findings in weekly team meetings.
- **Adjunct Faculty** Habiganj, Bangladesh.  
*Habiganj Agricultural University*  
May 2023 - Oct 2023
- **Research Assistant** Sylhet, Bangladesh  
*Sylhet Engineering College*  
Feb 2023 - May 2023  
*Supervisor: Ashraful Islam*  

Conducted research at the interoperability of blockchain and IoT, aiding in experimental design, data analysis, and paper development, while actively collaborating with a research team and gaining proficiency in Solidity, Ethereum, and Hyperledger Fabric tools.
- **Adjunct Faculty** Faridpur, Bangladesh.  
*Faridpur Engineering College*  
Dec 2022 - April 2023
- **Software Engineer (remote)** NY, USA  
*Abasas Technologies Inc.*  
Dec 2019 - Dec 2022  

Expert in full-stack development (Laravel, Express, React), Docker/AWS deployment, database design, and mentoring interns for growth.
- **Junior Developer (remote)** NY, USA  
*Abasas Technologies Inc.*  
Nov 2017 - Nov 2019  

Proficient in Laravel REST API development, frontend modals with Ajax/jQuery, and adept at customizing WordPress and Shopify themes, with strong collaboration skills.

## RESEARCH INTERESTS

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- Blockchain Technology
- Machine learning
- Internet of Things
- Hyperledger Fabric
- Blockchain Interoperability
- Computer Vision

## RESEARCH EXPERIENCES

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- **R. Amin**, M. S. Islam, R. I. Arif, A. Islam and M. M. Hossain, ‘‘Blockchain-based Integrated Application for Forged Elimination of Hiring System using Hyperledger Fabric 2.x’’ 2022 25th International Conference on Computer and Information Technology (ICCIT), Cox’s Bazar, Bangladesh, 2022, pp. 1057-1062, doi:10.1109/ICCIT57492.2022.10055308. ☞ [**\*Best Presentation Award**]
- **R. Amin**, A. Islam, D. H. Tanvir and R. I. Arif, ‘‘HIREX: A Heterogeneous Interoperable Blockchain Solution For Hiring System,’’ 2023 3rd International Conference on Intelligent Communication and Computational Techniques (ICCT), Jaipur, India, 2023, pp. 1-7, doi:10.1109/ICCT56969.2023.10076241. ☞
- H. Tanvir, **R. Amin**, A. Islam, M. S. Islam, M. M. Rashid, ‘‘Blockchain Interoperability For A Reputation-Based Drug Supply Chain Management,’’ 2023 6th International Conference on Information Systems and Computer Networks (ISCON) (pp. 1-6). IEEE, doi: 10.1109/ISCON57294.2023.10112196 ☞
- **R. Amin**, R. A. Chowdhury, S. M. Tanjim, A. Islam and M. S. Islam, ‘‘xCRM: Blockchain Interoperable Crime Report Management System By Utilizing Hyperledger Cacti & Private Data Collection (PDC),’’ 2023 International Conference on Next-Generation Computing, IoT and Machine Learning (NCIM), Gazipur, Bangladesh, 2023, pp. 1-6, doi: 10.1109/NCIM59001.2023.10212677. ☞
- P. H. Saurav, A. R. Limon, **R. Amin** and M. Rahman, ‘‘Multi-Layer Open-Domain Bangla Conversational Chatbot with a Hybrid approach,’’ 2023 International Conference on Next-Generation Computing, IoT and Machine Learning (NCIM), Gazipur, Bangladesh, 2023, pp. 1-6, doi: 10.1109/NCIM59001.2023.10212816. ☞
- **R. Amin**, M.H. Shakil, O. Talukder, A. Islam and Rabbi, M. F., ‘‘B-Dropshipper: Revolutionizing Dropshipping with Federal Blockchain Solutions’’ 22023 26th International Conference on Computer and Information Technology (ICCIT), Cox’s Bazar, Bangladesh, 2023, pp. 1-6, doi: 10.1109/ICCIT60459.2023.10441335. ☞
- R. A. Chowdhury, S. M. Tanjim, **R. Amin**, T. Ahmed, S. D. Chowdhury, M. Lysuzzaman ‘‘S-DrivingRecords: Blockchain based Enhancing Trust and Transparency in Driving Records Using Hyperledger Fabric.’’ International Conference on Advances in Computing, Communication, Electrical and Smart Systems. DOI: 10.1109/iCACCESS61735.2024.10499543 ☞, Bangladesh
- T. Ahmed, S. D. Chowdhury, **R. Amin**, R. A. Chowdhury, S. M. Tanjim, M. Lysuzzaman ‘‘SafetyNet: A Decentralized Police Complaint Management System For Bangladesh Using Blockchain’’ International Conference on Advances in Computing, Communication, Electrical and Smart Systems DOI:10.1109/CACCESS61735.2024.10499556 ☞, Bangladesh [**\*Best Presentation Award**]
- **R. Amin**, T. Ahmed, S. Chowdhury, A. Islam and Rabbi, M. F., ‘‘B-ClassRoom: blockchain-based distance learning with resource sharing using Hyperledger Fabric Private Data Collection (PDC),’’ World Congress on Smart Computing (WCSC2024) ☞, India (Accepted)
- M. Hossain, **R. Amin**, A. Islam, ‘‘Enhancing Vision-based Vehicle Detection and Classification Systems for Foggy Weather Using Convolutional Neural Networks’’ 3rd International Conference on Advancement in Electrical and Electronic Engineering ☞, India (Accepted)
- **R. Amin**, A. Islam, ‘‘shareXchain: API Based Portable File Sharing Blockchain Interoperability Protocol’’ World Congress on Smart Computing (WCSC2024) ☞, India (Accepted)





## LEADERSHIP & VOLUNTARY WORK EXPERIENCE

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| • <b>Reviewer</b>  | IEEE        |
| • 2nd International Conference on Artificial Intelligence: Theory and Applications (AITA 2024) | August 2024 |
| • <b>Reviewer</b>  | IEEE        |
| • 3rd 2024 IEEE World Conference on Applied Intelligence and Computing (AIC 2024)              | July 2024   |
| • <b>Reviewer</b>  | IEEE        |
| • 5th International Conference on Data Science and Applications (ICDSA 2024)                   | July 2024   |
| • <b>Reviewer</b>  | Springer    |
| • World Congress on Smart Computing (WCSC2024)   | June 2024   |

<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>4th International Conference on Computer Vision and Robotics</li> </ul>	May 2024
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>4th International Conference on Paradigms of Communication, Computing and Data Analytics (PCCDA 2024)</li> </ul>	March 2024
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>International Conference on Business Intelligence and Data Analytics (BIDA 2024)</li> </ul>	Feb 2024
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>5th World Conference on Artificial Intelligence: Advances and Applications (WCAIAA 2024)</li> </ul>	Oct 2023
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>2023 IEEE Pune Section International Conference</li> </ul>	NOV 2023
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>2024 IEEE International Conference on Contemporary Computing and Communications (InC4)</li> </ul>	Jan 2024
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	Springer
<ul style="list-style-type: none"> <li>ICIVC 2023 — 3rd International Conference on Intelligent Vision and Computing</li> </ul>	Oct 2023
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>IEEE ICBDS 2023 — IEEE International Conference on Blockchain and Distributed Systems Security 2023</li> </ul>	Aug 2023
<ul style="list-style-type: none"> <li><b>Reviewer</b></li> </ul>	IEEE
<ul style="list-style-type: none"> <li>AIBThings-2023 — The IEEE International Conference on Artificial Intelligence, Blockchain, and Internet of Things</li> </ul>	July 2023
<ul style="list-style-type: none"> <li><b>Coordinator</b></li> </ul>	Sylhet Engineering College
<ul style="list-style-type: none"> <li>Sec Research Lab</li> </ul>	Feb 2023 - June 2023
<ul style="list-style-type: none"> <li><b>Developing Coordinator</b></li> </ul>	Sylhet Engineering College
<ul style="list-style-type: none"> <li>SEC Programming Club</li> </ul>	Jan 2022 - Jan 2023
<ul style="list-style-type: none"> <li><b>Organizing committee</b></li> </ul>	Sylhet Engineering College
<ul style="list-style-type: none"> <li>SEC Inter University Junior Programming Contest, 2022</li> </ul>	Aug 2022
<ul style="list-style-type: none"> <li><b>Coordinator</b></li> </ul>	Sylhet Engineering College
<ul style="list-style-type: none"> <li>SEC ACM Lab</li> </ul>	Jun 2018 - Mar 2020

## PROJECTS (WEB3)

<ul style="list-style-type: none"> <li><b>SecureDoc : Blockchain-Based-Document-Authentication</b> </li> </ul>	running
<ul style="list-style-type: none"> <li>Funded by University Innovation Hub Program (UIHP) ,initiatives by the Bangladesh Hi-Tech Park Authority</li> </ul>	
<p>Developed a Blockchain-Based Academic Credential Verification System, enabling institutions to securely upload and verify documents. Implemented IPFS and Ethereum for transparent transactions, enhancing educational credential integrity and reducing fraud.</p> <p><b>Role:</b> Project manager, system architect.</p>	
<ul style="list-style-type: none"> <li><b>Certificate verification System- Hyperledger Fabric</b> </li> </ul>	running
<ul style="list-style-type: none"> <li>The blockchain-based academic certificate verification system serves the purpose of securely issuing, managing, and authenticating academic certificates in a decentralized manner. This initiative aims to fulfill the demand for a reliable digital platform that enables the issuance and verification of academic certificates without requiring intervention from the university, the original certificate issuer..</li> </ul>	
<ul style="list-style-type: none"> <li><b>Cryptocurrency DONATION: Donate Ethereum</b> </li> </ul>	2023
<ul style="list-style-type: none"> <li>Blockchain Drive: Securely store and manage data using Ethereum and IPFS. Seamlessly integrate MetaMask, upload files to IPFS via Pinata, and store links on Ethereum. Share and control access to your files. Smart contract built with Solidity on the Sepolia test net. Client app developed with React.js and Tailwind CSS.</li> </ul>	
<ul style="list-style-type: none"> <li><b>Blockchain Drive: Securing Data on the Ethereum &amp; IPFS</b> </li> </ul>	2023
<ul style="list-style-type: none"> <li>Blockchain Drive: Securely store and manage data using Ethereum and IPFS. Seamlessly integrate MetaMask, upload files to IPFS via Pinata, and store links on Ethereum. Share and control access to your files. Smart contract built with Solidity on the Sepolia test net. Client app developed with React.js and Tailwind CSS.</li> </ul>	

## PROJECTS (WEB2)

<ul style="list-style-type: none"><li><b>Result Processing System</b> <i>Sylhet Engineering College utilizes this software to process results, distribute mark sheets &amp; Transcript during last 2 years.</i></li></ul>	2020
<ul style="list-style-type: none"><li><b>Point of Sale (POS)</b> <i>At present, 50+ shops use this system for their daily sales.</i></li></ul>	2019

## CERTIFICATIONS

<ul style="list-style-type: none"><li><b>Python for Machine Learning with Numpy, Pandas &amp; Matplotlib</b> <a href="#">↗</a></li></ul>	Udemy - 2023
<ul style="list-style-type: none"><li><b>BlockChain: Smart Contracts</b> <a href="#">↗</a></li></ul>	Coursera - 2022
<ul style="list-style-type: none"><li><b>Mastering CI/CD with Teamcity and Octopus Deploy</b> <a href="#">↗</a></li></ul>	Udemy - 2022
<ul style="list-style-type: none"><li><b>Building AWS Architecture</b> <a href="#">↗</a></li></ul>	Udemy - 2022
<ul style="list-style-type: none"><li><b>Training For Mobile Application Developer(Android)</b> <i>- Skill Development for Mobile Game &amp; Application Project- ICT Division.</i></li></ul>	ICT Division- 2018

## COMPETITIVE PROGRAMMING

As a competitive programmer, I have solved **700+** problems on prominent online judge platforms like LightOJ, UVA, Codechef, AtCoder, Codeforces, among others. Additionally, I actively participate in various online contests on a regular basis.

## ENGLISH LANGUAGE PROFICIENCY: IELTS (7.0)

- **Listening:** 7.5
- **Reading:** 6.5
- **Writing:** 6.5
- **Speaking:** 7.0

## SKILL SUMMARY

- **Languages:** PHP, C++, Python, Nodejs, Reactjs
- **Tools:** Kubernetes, Docker, Jenkins, JIRA, Monday.com, Git, Latex
- **Web3:** Blockchain, Hyperledger, Ethereum, IOTA, Rimix, Solidity, webs3js
- **Miscellaneous:** Raspberry Pi, WordPress, Shopify, AWS, Linux

## MEMBERSHIP

<ul style="list-style-type: none"><li><b>IEEE Student Member</b> <i>#99368750</i></li></ul>	IEEE 2023
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## RESEARCH AWARD

<ul style="list-style-type: none"><li><b>Best Presentation Award</b> <i>2022 25th International Conference on Computer and Information Technology (ICCIT 2022)</i></li></ul>	IEEE 2023
<ul style="list-style-type: none"><li><b>Best Presentation Award</b> <i>International Conference on Advances in Computing, Communication, Electrical and Smart Systems (iCACCESS 2024)</i></li></ul>	IEEE 2024

## REFERENCE

<b>Dr. Md Forhad Rabbi, SMIEEE</b> Professor Department of CSE Shahjalal University of Science & Technology. Email: frabbi-cse@sust.edu	<b>Ashraful Islam</b> Lecturer Department of CSE, SEC, SUST PhD (Fellow) University of Regina, Canada Email: AIY497@uregina.ca
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