H M SHADID REZA CHOWDHURY

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EDUCATION

Bachelor of Science in Computer Science and Engineering (CSE)　　　　Jan 2020 - Jun 2024
Islamic University of Technology (IUT), Gazipur, Bangladesh
CGPA: 3.72/4.00
Thesis Topic : Computer Vision (CV)

Higher Secondary School Certificate, 2019
Rajuk Uttara Model College, Dhaka, Bangladesh (2017-2019)
GPA: 5.00/5.00

Secondary School Certificate, 2017
Rajuk Uttara Model College, Dhaka, Bangladesh
GPA: 5.00/5.00

EXPERIENCE

Software Engineer　　　　Jul 2024 − Present, Full Time
HawarIT Limited, Dhaka, Bangladesh
- Designed and developed full stack web projects using n-Tier Architecture.
- Built an authentication service using Microsoft Entra ID with SSO and in-site login flows.
- Enhanced application performance by refactoring legacy codebases and fine-tuning complex SQL queries.
- Worked in DevOps and deployed cloud-native Azure apps using Repos, Pipelines, and Boards.
- Crafted a suite of xUnit and BUnit tests to catch bugs early and ensure code quality.
- Contributed in developing a multi-user Revit plugin for Rensa Family using .NET Core, Blazor, Azure services, and the Autodesk Revit API.

Software Engineering Intern　　　　Apr 2023 − Aug 2023, Internship
Durbin Labs Limited, Dhaka, Bangladesh
- Pioneered a project platform development using NodeJs and ReactJs.
- Conducted research on carbon footprint calculation focusing on sustainable innovation.
- Handled operations and conducted pilot planning, monitoring, assessment, and follow-up of a project.

Blockchain Research and Development (R&D)　　　　Jun 2023 − Jul 2023, Internship
Grameen Communications, Dhaka, Bangladesh
- Led pivotal efforts in the implementation of a blockchain prototype for the current system.
- Developed a UI using React and implemented smart contracts using IBM's Hyperledger Firefly.
- Conducted research on blockchain's potential impact on microfinance systems and practices in Bangladesh.

SKILLS

Languages: C, C++, C#, Python, Java, JavaScript, LaTeX, SQL, HTML, CSS, Assembly, Solidity

Libraries and Frameworks: ASP.NET Core, Blazor, Hyperledger Fabric, Node.js, React.js, Express.js, TensorFlow, PyTorch, Tailwind CSS, FastAPI, Hardhat

Development Tools : Microsoft SQL Server, Microsoft Azure, Git, Linux/UNIX, MySQL, MongoDB, Blender, Jira, Jupyter Notebook, Docker, Microsoft Visual Studio, Figma, Remix IDE

CO-CURRICULAR ACTIVITIES

IUT Computer Society (IUTCS)　　　　*Jul 2023 − June 2024*
Event Management Executive
- Organized the 11th National ICT Fest, one of Bangladesh's largest technology festivals, held in April 2024.
- Managed the Esports event of the National ICT Fest, overseeing 150 participants across two gaming segments.
- Served on the organizing committee for CodeRush 1.0, the inaugural Intra-IUT ICT Fest.

Projects

DriveChain | *GitHub*   Jan 2023 − Jun 2023

Solidity, Hyperledger Firefly, React.js

- Conducted research on the existing system to architect a decentralized system for the Road Transport Authority of Bangladesh.
- Formulated and implemented smart contracts for automating license, registration, and tax applications.
- Implemented document authentication to complement e-licenses.
- Utilized the concept of NFTs to tokenize vehicles within the system.

AutoHub : A Car Maintenance System | *GitHub*   Oct 2022 − Jan 2023

Node.js, EJS, CSS, MySQL

- Led a team of 4 to make a full fledged car maintenance and reservation website.
- Made a feature which can find the closest workshop from the current location using Google Maps API.
- The system includes features like making appointments, searching based on service or parts needed, appointment history, and suggestions based on location and needs.

Decentralized Health Ledger | *GitHub*   Mar 2022 − Nov 2022

Node.js, React.js, Solidity, bigchainDB, IPFS, Hyperledger Firefly

- Designed an ecosystem using blockchain technology to create a distributed heath ledger.
- Built the UI and smart contracts of the ecosystem on the test chain.
- Implemented the smart contract using hyperledger firefly.

Space Information Bot | *GitHub*   Oct 2020

Node.js, Discord.js, NASA API

- Led a team of 3 to build a Discord (VoIP) bot using Discord.js.
- Implemented feature to collect real-time data from NASA projects using NASA API.
- Used the API from Launch Library for more information about the latest spacecraft launches.

Awards & Achievements

International Blockchain Olympiad 2022

- Won Bronze Award in SDG-3 (Good Health and Well Being) category at the IBCOL 2022.

National Blockchain Olympiad 2022

- Won HealthTech Category Award for creating a blockchain based EHR platform.

UIU Blockchain Olympiad 2025

- Won Bronze Award for creating a blockchain based solution to combat wildlife trafficking in UIU National ICT Fest.

National Blockchain Olympiad 2024

- Honorable Mention in BCOLBD 2024 for innovating a decentralized system for the Road and Transport Authority.

ML Olympiad 2024: CO2 Emissions Prediction Challenge

- Secured 6th place among 70+ teams, working with time series data to forecast CO2 emissions per capita.

Bhashamul: Bengali Regional IPA Transcription 2024

- Finalist for contributing in Bhashamul directed towards exact IPA transcription of different dialects of Bengali.

BDApps National Hackathon 2022

- Became Champion in Dhaka regional round in the "Robi BDapps, The National Hackathon 2022".

CodeRush 1.0 Intra-IUT CTF Challenge

- Secured a position in the top 10 at Coderush 1.0 (2023).

NASA SpaceApps Challenge 2020

- Got Honorable mention as NASA Galactic Problem Solver for performance in the challenge.