

MAHFUZUR RAHMAN EMON

Lecturer, IICT, SUST

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PROFESSIONAL EXPERIENCE

Lecturer, Institute of Information and Communication
Techonology

Shahjalal University of Science and Technology

 November 2023 – Present  Sylhet, Bangladesh

- Have the privilege of instructing a range of courses at the undergraduate level, covering Human-Computer Interaction with both theoretical foundations and practical lab sessions, Introduction to Software Engineering, Competitive Programming and others.

Junior Software Engineer


Dynamic Solution Innovators

 March 2022 – November 2023  Dhaka, Bangladesh

- Played a key role in the InfoReach team, enhancing banking client management system of USA. Contributions included crafting a customized editor, developing services with Spring Boot, and establishing seamless connections between services via ActiveMQ.
- Worked on the Health Data Architecture(HDA), my responsibilities include constructing a microservice bus, creating an adapter for Health service provider systems and developing a patient portal to link patient with HDA
- Collaborated with the OpenCRVS team to enhance the Client Microservice, with a focus on Record Audit, Work Queue, Duplicate Records, Application Configuration, Team, Header, Component Library, and Settings. Designed and developed the Left Navigation feature from scratch.
- **Technologies:** ReactJS, Spring Boot, ActiveMQ, Redis, Angular, Typescript, Javascript, HapiJS, NodeJS, Java, GraphQL, Redux, Jest

Software Engineer Intern

Dynamic Solution Innovators

 September 2021 – February 2022  Dhaka, Bangladesh

- Conducted bug fix on client microservice, worked on component library, user profile, form-field generator on openCRVS.
- On learning phases created a simple ToDo application, also created a mock E-Commerce website with mock API where users can select products, increase or decrease the quantity, checkout with the shipment information.
- **Technologies:** ReactJS, Typescript, HapiJS, GraphQL, Redux, MongoDB

MAJOR PROJECTS

InfoReach – A sophisticated client management system serving banks across the USA.

OpenCRVS – A digital public good to help achieve universal civil registration.

Shared Health Record – The system facilitates seamless sharing of patient health information, utilizing the OpenHIE architecture,


EDUCATION

B.Sc in Software Engineering Shahjalal
University of Science and Technology,
Sylhet

CGPA:3.89

 2022

RESEARCH ACTIVITIES

- **BaDLAD:**  A Large Multi-Domain Bengali Document Layout Analysis Dataset paper, enabling robust training of deep learning models for Bengali document digitization.
- **Bengali Lemmatizer:** Generated largest Bengali finite and non-finite verb datasets based on grammar and tense and implemented a lemmatizer for Bengali.

SKILLS

Language

C, C++, Python, Java, JavaScript, Typescript

Web Dev

ReactJS, Django, Spring Boot, Angular, HapiJS, NodeJS, ActiveMQ GraphQL, Redis

Others

Git, MongoDB, postgresSQL

ORGANIZATIONS

Treasurer

SWE Society, SUST

 03/2024 – Present


General Secretary

SWE Society, SUST

 02/2022 – 10-2022


Assistant General Secretary

SWE Society, SUST

 11/2019 – 02/2022

Mentor at Corporate Team

SUST ACM Student Chapter

 04/2022 – 10/2022

HOBBIES

Travelling, Photography, Web
Development,