

AL MAHMUD SARKER

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Professional Summary

Motivated and research-oriented software engineer with a strong foundation in computer science, hands-on industry experience, and impactful contributions to AI-driven prediction models. Skilled in developing scalable software systems, collaborating across teams, and integrating research into practical applications. Passionate about bridging the gap between innovation and real-world implementation through robust, maintainable code and intelligent design.

Skills

Expertise: HTML, CSS, Tailwind, JavaScript, React.js, MongoDB, Git, C++, SQL

Comfortable: AWS, Express.js, Firebase, Java, Node.js, MySQL, C#, JWT, Axios.

Technical: Redhat & Kali Linux, GitHub, Windows, Directory services, Data Analysis, Time Series Modeling, Cybersecurity, Vulnerability assessment.

Professional Experience

Software Engineer | ZenithhBD, Comilla, BD (Intern) (Onsite) *(March 2024 - June 2024)*

- Contributed to Zenith's mission of transforming digital aspirations into reality by delivering captivating web designs, seamless development, innovative UI/UX solutions, and strategic digital marketing, helping elevate client's online presence and drive business growth. [Link](#)

Software Developer | Persist Ventures, CA, USA (Intern) (Remote) *(November 2023 - April 2024)*

- Collaborated with front-end and back-end teams on React, Express, Node.js, and MongoDB projects, improving product quality from 46% to 70% in 6 months and deploying on platforms like Vercel, Render, Firebase, Netlify, and GitHub. [Link](#)

Projects

Through Travels: An interactive travel booking website using React, Tailwind CSS, Express, Node.js and MongoDB designed to streamline travel planning and booking processes, JWT authentication, significantly improving user experience and engagement.

- Technologies used: React, Tailwind CSS, JavaScript, Node.js, Express.js, MongoDB.
- Links: [Github](#), [Live website](#)

Glamour Haven: A MERN stack project that integrated telemedicine services with a platform for selling pharmacy products, Firebase authorizations, enhancing customer service and operational efficiency.

- Technologies used: React, Tailwind CSS, JavaScript, Node.js, Express.js, MongoDB.
- Links: [Github](#), [Live website](#)

Baiust Computer Club: This is C# .NET MySQL project that automated the management of the computer club, including event scheduling, membership tracking, and information dissemination.

- Technologies used: C#, .NET framework, MySQL.
- Links: [Github](#)

Wish Tracker: A serverless, scalable, and user-friendly React application built with modern AWS cloud services to optimize bucket list tracking and management.

- Technologies used: AWS Amplify, AWS AppSync, GraphQL, DynamoDB, S3 Bucket, React.
- Links: [Github](#)

Cuisine Chronicles: Cuisine Chronicles is a website dedicated to showcasing the recipes of various chefs from around the world.

- Technologies used: React, Tailwind CSS, JavaScript, Node.js, Express.js, MongoDB.
- Links: [Github](#), [Live website](#)

Research work

Journal

Leveraging A Stacking Ensemble Model for Accurate Depression Prediction and Diagnosis Across All Ages in *proceedings of the IET Software (Q2, IF:1.6)*, Science Citation Index Expanded (Clarivate Analytics), Scopus & SCImago Indexed. **Under Review**

Conference

Short-Term Rainfall Forecasting in Bangladesh Using LSTM, ARIMA, and LSTM Time Series Generator Models in *proceedings of the 3rd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT 2025)*, IEEE Xplore & Scopus Indexed. **Accepted**

Education

Master of Science | Software Engineering

(2025 - Ongoing)

👤 Faculty of Engineering, University of Porto (FEUP), Porto, Portugal.

📍 Software Engineering Paradigms, Testing and Validation, Cloud & Service-Oriented Computing, Security in Software.

Bachelor of Science | Computer Science & Engineering

CGPA: 3.30 / 4.00 | (2020 - 2024)

👤 Bangladesh Army International University of science & Technology (BAIUST), Cantonment Comilla, Bangladesh.

📍 Software Engineering, Operating system, OOP, DSA, Computer network, ML, System design & development, Data communication, Artificial Intelligent, Computer Architecture, Compiler, Queueing system.

Credentials

Google IT Support Professional Certificate | June 2023

Eight-month IT support program, developed by Google, that covers troubleshooting, customer service, networking, operating systems, system administration, and security, and includes hands-on labs. [Link](#)

Complete Web Development | June 2023

This Six-month course completed with a rigorous amount of JavaScript, HTML, CSS, React & applied these skills to build several projects. [Link](#)

Achievements

Black Belt Web Developer | Programming Hero ([Link](#))

(September 2023)

Athletes Of The Year | Milestone College ([Link](#))

(January 2018)

Professional Associations

Campus Ambassador | Applink

- Represented and promoted Banglalink services on campus, leading to a 15% increase in student subscriptions. [Link](#)

Campus Ambassador | Bohubrihi

- Engaged with students to promote online learning, resulting in a 20% growth in course enrollments from the campus. [Link](#)

Positions of Responsibility

Joint Secretary | Baiust Computer Club

(2023 - 2024)

Student Advisor, CSE Dept. | Baiust Research, Higher Study & Career Hub

(2022 - 2023)

Languages

Bengali – Advanced and Native

English – Professional work

Hindi – Intermediate

Portuguese – Very Basic

References

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