AL MAHMUD SARKER

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Professional Summary

Driven and innovative software engineer with a strong academic background in Computer Science and Engineering, specializing in scalable web applications and cloud-based technologies. Proficient in the MERN stack, AWS, and advanced software development tools. Experienced in solving complex challenges through collaborative teamwork and self-initiative, with a proven track record in research on AI-driven prediction models and time-series forecasting. Passionate about advancing knowledge in software engineering and cloud computing while contributing to impactful technological innovations.

Education

Bachelor of Science | Computer Science & Engineering   *CGPA: 3.30 / 4.00 | (2020 - 2024)*

 Bangladesh Army International University of Science & Technology (BAIUST), Comilla, Bangladesh.

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

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

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**

Skills

Expertise: HTML, CSS, Tailwind, JavaScript, React.js, MongoDB, Git, C++, SQL
Comfortable: AWS, Express.js, Firebase, Java, Node.js, MySQL, C#.
Technical: Redhat & Kali Linux, GitHub, Windows, Directory services, Cybersecurity.

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

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

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)*

Achievements

Black Belt Web Developer | Programming Hero (Link)   *(September 2023)*
Athletes Of The Year | Milestone College (Link)   *(January 2018)*

Languages

Bengali – Advanced and Native
English – Professional work
Hindi – Intermediate
Portuguese – Beginner