Sadman Sakib

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LinkedIn | GitHub | Portfolio

Summary

Versatile Software Engineer with 4+ years of professional experience and full-stack capabilities, specializing in high-performance React and Next.js applications with backend experience in Node.js and Laravel. Co-author of an IEEE ICCIT publication in machine learning and explainable AI for disaster management. Combines engineering expertise with analytical research to deliver scalable, secure, and business-driven software solutions.

Education

Rajshahi University of Engineering & Technology — Rajshahi, Bangladesh
B. Sc. in Computer Science and Engineering (CGPA: 3.08 / 4.00) — *Jan. 2017 - Aug. 2023*

Govt. M. M. City College — Khulna, Bangladesh
HSC in Science (GPA: 5.00 / 5.00) — *Aug. 2014 - May 2016*

Research Interests

- **Cybersecurity & Cryptographic Protocols**
- **Decentralized Architectures & Blockchain Technologies**
- **Applied Machine Learning & Explainable AI (XAI) in Environmental Informatics**

Publications & Research Thesis

IEEE ICCIT Conference Publication — Dec. 2024
Flood Prediction in Bangladesh Using Machine Learning and Explainable AI: A Comparative Study — *Dhaka, Bangladesh*

- Co-authored research evaluating machine learning, deep learning, and explainable AI (XAI) models for flood forecasting.
- Published in the IEEE 27th ICCIT Conference Proceedings: DOI: 10.1109/ICCIT64611.2024.11022407.

Bachelor's Thesis — Jan. 2023 - Aug. 2023
A Comparative Study of Flood Prediction based on Rainfall using Machine Learning Methods — *RUET, Bangladesh*

- Conducted comparative research on ML, Deep Learning, and Transfer Learning methods for rainfall-based flood forecasting.
- Analyzed historical climate datasets to model flood vulnerabilities and support regional disaster management policies.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, Python, SQL, C/C++, PHP, HTML/CSS
Libraries & AI tools: PyTorch, Keras, Scikit-learn, Pandas, NumPy, Matplotlib
Frameworks & Engines: React, Next.js, Node.js, Express, Laravel
Databases & Cloud: PostgreSQL, PostGIS, Firebase, Supabase, Vercel, AWS
Developer Tools: Git, GitHub Actions, Playwright, Jupyter Notebooks, VS Code

Languages & Test Scores

English: Full professional proficiency | **IELTS Academic**: Overall Band 8.0 (Listening: 9.0, Reading: 9.0, Writing: 7.5, Speaking: 6.5)
Bengali: Native speaker

Work Experience

Samadhan Solution Pty Ltd — Dhaka, Bangladesh
Software Engineer — *March 2023 - Present*

- Led cross-functional developer teams and took on product management responsibilities, bridging client business requirements with concrete technical implementations.
- Pioneered the integration of generative AI features (Gemini and OpenAI APIs) to optimize user engagement and automate background processing.
- Engineered secure, scalable multi-stack solutions using React, Next.js, Node.js, and Laravel, optimizing server response times.

Rattix Toronto, Canada
Intermediate Software Engineer (Contractual) *August 2025 - February 2026*

- Built core modules for an accreditation management system for the Health Standards Organization (HSO) to streamline compliance.
- Implemented complex, responsive multi-step forms and role-based access controls (RBAC) to protect sensitive client data.

Brainstation-23 Dhaka, Bangladesh
Software Engineer *June 2022 - August 2023*

- Maintained and refactored enterprise-level web applications, reducing codebase complexity and improving overall page speed.
- Collaborated with senior engineers to write clean, unit-tested code and perform relational database queries.

Projects

Blockchain-Based Secure Voting System
Solidity, Web3.js, React, Ethereum, Cryptography

- Designed and implemented a decentralized, secure voting prototype leveraging Ethereum smart contracts to ensure transparency.
- Programmed immutable transactional logic in Solidity and constructed a responsive React client interface to interact with decentralized ledger protocols.

KhelaHobe (Football Match Manager) | **khelahbe.vercel.app**
Next.js, Supabase, Realtime, Tailwind CSS

- Developed a real-time event coordination and RSVP platform utilizing Supabase Realtime channels for instant synchronization.
- Modeled relational database schemas in PostgreSQL with row-level security (RLS) policies to protect user privacy.

RateMyMarriage (Comparative Analytics) | **ratemymarriage.xyz**
React, Firebase, Recharts, Tailwind CSS, Google Analytics

- Built an analytical platform to collect, analyze, and visualize marital satisfaction survey metrics across different demographics.
- Engineered data visualization pipelines using Recharts to present comparative statistical insights on large-scale survey data.

Certifications

AWS Fundamentals — AWS (Coursera)

Blockchain Basics — University at Buffalo (Coursera)

Introduction to Psychology — Yale University (Coursera)

Achievements & Activities

Volunteered for UNICEF and other non-profit organizations in community development initiatives.

Received Government scholarships awarded based on outstanding public Primary and Higher Secondary School Certificate exam results.

Represented the RUET football team; actively interested in sports technology and data analytics.

References

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