

SAIMON BHUIYAN

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Skills

- Java | JavaScript | TypeScript | C++ | C | SQL | Node | Express | React | Redux | NextJS | Kotlin | Python | Bash
- AWS | CI/CD | Docker | Kubernetes | Monitoring | Github Actions | Android | AWS Lambda | Jenkins

Experience

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|--|------------------|---------------|--------------------------|
| Software Engineer, Intern | Factoryze | <i>Remote</i> | 01/2025 - 04/2025 |
| <ul style="list-style-type: none">• Contributed to a full-stack property rental system for an American client as part of Factoryze's mission to deliver innovative tech solutions.• Developed and optimized frontend components using NextJS, creating a seamless and scalable web application.• Collaborated with a cross-functional team to troubleshoot issues and enhance application performance. | | | |

Projects

FakeltApi (Node.js — React — Docker — GitHub Actions — Kubernetes)

- A full-stack platform for generating customizable mock API endpoints with dynamic request/response handling. Set up manually on a local Kind cluster and deployed using a GitHub Actions CI/CD pipeline for automated builds and updates.

FactRush (Node.js — MongoDB — React.js — Gemini API — AWS)

- A full-stack AI-driven platform promoting accessible science education with multilingual support and assistive features. Developed robust backend services for, content moderation, and AI-powered Q&A and quiz generation. Integrated Gemini API for real-time translation and text-to-speech, ensuring inclusive engagement across diverse user groups. Deployed in a secure AWS VPC.

Chatty (MERN — WebSocket — Docker — AWS — GitHub Actions)

- A real-time chat app using the MERN stack and WebSocket for instant messaging. Deployed in a secure AWS VPC with public/private subnets, ALB, and Auto Scaling across 2 AZs. CI/CD via GitHub Actions streamlined deployment, while Docker ensured fast environment setup.

TestCube (Python — React — Node.js — DroidBot — OpenAI)

- An automated test case generator tool for Android apps using DroidBot for automated UI interaction and structure extraction. Combined Python automation and a real-time web dashboard to manage test runs and visualize logs, achieving 90% UI coverage across 10+ APKs.

Expense-Buddy (Next.js — Clerk — Vercel — Chart.js — Postgresql)

- A modern expense tracking web app with secure Clerk-based authentication and real-time income/expense visualization using Chart.js. Deployed on Vercel for seamless CI/CD, the platform supports transaction history, dark/light themes, and analytics-driven insights.

Movix (Jetpack Compose — Retrofit — SQLite — MVVM)

- A modern Android app leveraging TMDB API to display movie data, built with Jetpack Compose and MVVM architecture. Integrated Retrofit for API calls and SQLite for local caching, ensuring smooth offline access and efficient data handling.

Gomoku (Java — Minimax — Alpha-Beta Pruning — Swing)

- Developed a Java-based Gomoku game featuring an AI opponent powered by Minimax with alpha-beta pruning for efficient decision-making. Implemented a custom evaluation function balancing offensive and defensive play, along with optimizations like limited search depth and move pruning. Built an interactive GUI with Java Swing for smooth user experience.

Education

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|---|--------------------------------|------------------------------|----------------------|
| Bachelor of Science (GPA-3.82) | University of Dhaka | <i>Dhaka, Bangladesh</i> | 09/2022 - Now |
| <ul style="list-style-type: none">• Bachelor of Science in Software Engineering | | | |
| HSC (GPA-5.00) | Narsingdi Govt. College | <i>Narsingdi, Bangladesh</i> | 2019 - 2022 |
| <ul style="list-style-type: none">• Higher Secondary Certificate | | | |

Achievements

- Earned **Honorable Mention** in the AI category at Blockchain Olympiad Bangladesh 2024 and nominated for the **international** round.
- Participant in International AI Olympiad (IDSOL), 2024, Amsterdam, **Netherlands**.
- Secured **1st place** in the IT Olympiad hosted by East West University in 2024.