Md. Mahabub Rana Saikat

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Portfolio: mahabubranasaikat.github.io

Professional Summary

Proactive Backend Developer with expertise in Node.js, TypeScript, and full-stack development. Skilled in scalable backend architecture, secure authentication, and relational/NoSQL databases. Passionate about clean code, efficient algorithms, and delivering measurable results.

Experience

Backend Developer — Personal & Academic Projects   2024 – Present
Sylhet, Bangladesh

- Developed 5+ RESTful APIs using Node.js, Express.js, and TypeScript for web and mobile applications.
- Implemented secure authentication and authorization for 100+ users using JWT and cookies.
- Designed backend architecture following MVC and clean code principles, reducing code redundancy by 20%.
- Worked with MySQL and MongoDB to handle over 10,000 database queries efficiently.
- Improved query performance, achieving 30% faster API response times in testing.

Publication Secretary — SWE Society, SUST   Jul 2023 – Present
Sylhet, Bangladesh

- Managed publications and documentation for the 6th Executive Committee, producing 10+ technical reports and newsletters.
- Coordinated technical content and event communications for 15+ student-led workshops and seminars.
- Streamlined content review process, reducing editing time by 25%.

Projects

SWE Society Management System (Full-Stack)

- Web platform for managing student society activities.
- Tech Stack: Node.js, Express.js, MySQL, JWT, HTML, CSS, JS.

ProjecTra (Web Application)

- Student project management and discovery platform with authentication and role-based access control.
- Tech Stack: Node.js, Express.js, MySQL, HTML, CSS, JS.

Climate Hope (Flutter Application)

- OOP-based environmental awareness mobile app.
- Tech Stack: Flutter, Dart, MongoDB.

Snake Game (C++, SDL2)

- Classic snake game using structured programming and performance optimization.

Circuit Designing (Python Schemedraw)

- Designed and simulated electrical circuits using Python and Schemedraw library.
- Technologies: Python, Schemedraw.
- Source Code: GitHub link

Electrical Circuit Drawing (Python Schemedraw)

- Created professional electrical circuit diagrams using Python scripting.
- Technologies: Python, Schemedraw.
- Source Code: GitHub link

Education

B.Sc. in Software Engineering   2023 – Present
Shahjalal University of Science and Technology (SUST), Sylhet, Sylhet Division, Bangladesh

Higher Secondary Certificate (Science)   2019 – 2021
Govt. Shah Sultan College, Bogra, Rajshahi Division, Bangladesh
GPA: 5.00

Secondary School Certificate (Science)   2014 – 2019
Naogaon Zilla School, Naogaon, Rajshahi Division, Bangladesh
GPA: 5.00

Skills

Programming: JavaScript, TypeScript, Python, Java, C, C++
Backend: Node.js, Express.js, REST APIs, JWT, MVC Architecture
Frontend: HTML, CSS, JavaScript, Flutter, SwiftUI
Databases: MySQL, MongoDB
Tools & Concepts: Git, GitHub, OOP, Data Structures,Design Patterns