

MD. JAHID HOSSAIN MRIDHA

Software Engineer

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Summary

I am a self-taught software engineer with a strong foundation in full-stack development, specializing in the MERN stack. With hands-on experience in building dynamic, scalable, and user-friendly web applications, I excel in creating responsive frontends and robust backends. My collaborative work at organizations like MindsCraft and Prayers Connect has honed my skills in teamwork, GitHub workflows, and delivering solutions under tight deadlines. Passionate about continuous learning, I am highly adaptable and willing to learn new technologies or stacks as needed to meet project requirements. I bring a proactive, problem-solving mindset to every project, aiming to contribute meaningfully to impactful software engineering initiatives.

Experience

SAM Agro Chemical

Dhaka, Bangladesh

Software Engineer - Full Stack

10/2024 - Present

- Developed a payment collection management system to eliminate miscommunication between customers and field officers, ensuring accurate and efficient transaction tracking.
- Built and deployed a responsive, cross-platform frontend using React.js, integrated with a robust express.js backend for seamless operations.
- Optimized data handling processes, improving operational efficiency and reducing manual errors across multiple teams.

MindsCraft

Dhaka, Bangladesh

Software Engineer -Backend

03/2024 - 09/2024

- Designed and developed a robust backend system using Node.js and Express.js, streamlining client management processes for the agency.
- Implemented efficient APIs for handling client data, ensuring secure and smooth communication between the frontend and backend.
- Collaborated closely with the team to deliver scalable solutions within tight deadlines.

Prayers Connect

Dhaka, Bangladesh

Software Engineer -Intern

09/2023 - 02/2024

- Learned effective teamwork and collaboration practices while contributing to projects in a professional setting.
- Gained proficiency with **GitHub**, including managing branches, making pull requests, and ensuring all tests pass before merging.
- Developed modular components using **Next.js** and **Material UI**, ensuring code readability and reusability.

Skills

HTML • CSS • JavaScript • TypeScript • React.js • Next.js • Node.js • MongoDB • MySQL • Three.js • GSAP

Certification

ITEE (Information Technology Engineers Examination) - level 1

Complete Web Development - Programming Hero

Key Achievements

Learnathon 2.0 by Vivasoft

Achieved top **30 ranking out of 2,000+** participants in Vivasoft's Learnathon 2.0 and developed a Contact application using Electron.js.

Projects

2D Physics Engine

Developing a simple 2D physics engine from scratch using **JavaScript** as part of a 2D Game Physics Programming course. Implementing core physics concepts such as velocity, acceleration, forces, gravity, friction, and collision detection. Designing rigid body dynamics with support for various shapes (circles, rectangles, polygons) and resolving collisions effectively. Enhancing engine stability by adding constraints to simulate joints, ragdolls, and other complex interactions. This project is deepening my understanding of game physics, mathematical foundations, and real-time simulations while applying these principles using JavaScript.