



MD Mohimul Alam

Frontend Developer — React.js Next.js — UI/UX Enthusiast —

Blockchain Researcher

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GitHub

LinkedIn

PROFESSIONAL PROFILE

- Frontend developer with experience in **React.js, Next.js, TypeScript, TailwindCSS**, and modern UI/UX design.
- Skilled in building **responsive dashboards, e-commerce platforms, and interactive web applications** with real-time updates.
- Blockchain researcher with **Hyperledger Fabric, Zero-Knowledge Proofs, and secure distributed architectures**.
- Experienced in **full-stack development**, REST APIs, and production-ready applications.
- Passionate about **creating high-performance, user-friendly, and visually appealing web solutions**.
- Portfolio: mohim-portfolio.netlify.app

EDUCATION

Independent University, Bangladesh

2019–2024

B.Sc. in Computer Science & Engineering

CGPA: 2.74

TECHNICAL SKILLS

- **Frontend:** React.js, Next.js, TypeScript, TailwindCSS, JavaScript, HTML5, CSS3, Figma, Framer Motion, Responsive Design
- **Backend:** Node.js, Express.js, REST API, GraphQL, MongoDB, MySQL, JWT Authentication
- **Blockchain & Security:** Hyperledger Fabric, Smart Contracts, Zero-Knowledge Proofs, Threshold Encryption, Formal Verification
- **Testing & QA:** Jest, React Testing Library, Unit Testing, Test-Driven Development
- **Tools & Platforms:** Git, Docker, VS Code, Postman, Linux, CI/CD
- **Specializations:** IoT Development (ESP32), Embedded Systems, Real-time Applications

PORTFOLIO KEY PROJECTS

- **Personal Portfolio Website** *React, TypeScript, TailwindCSS, Netlify*
 - Modern responsive portfolio with animations and optimized load performance
 - Integrated contact forms with backend functionality and SEO best practices [GitHub Repository](#)
- **Personal Expense Tracker** *React, TypeScript, TailwindCSS, Node.js, Express, MongoDB*
 - Full-stack expense management app with interactive charts and JWT authentication
 - Automated financial insights reducing manual tracking time by 75% [GitHub Repository](#)
- **E-commerce Web Application** *React, JavaScript, Node.js, MySQL, TailwindCSS*
 - Developed responsive product catalog, shopping cart, and admin dashboard
 - Integrated order management and simulated payment gateway with real-time updates [GitHub Repository 1](#)
 - [GitHub Repository 2](#)
- **Blockchain-Based Voting System** *Hyperledger Fabric, React, Node.js*
 - Enterprise-grade voting platform with 4 organizations, secure encrypted voting, and real-time auditing
 - Implemented Zero-Knowledge Proofs and Threshold Encryption [GitHub Repository](#)
- **Healthcare Data Exchange Network** *Hyperledger Fabric, React, Node.js*
 - Private blockchain for 3 healthcare institutions with granular RBAC and real-time dashboard
 - Ensured 98% data consistency in clinical simulations [GitHub Repository](#)
- **Santaran Project** *Nuxt.js, Vue.js, TailwindCSS*
 - Developed responsive web platform for multidisciplinary artist-run organization
 - Built interactive dashboards for project management and event coordination
 - Implemented mobile-first design with animations and dynamic content
- **MBTS Project** *React, Node.js, TailwindCSS*
 - Created dashboard and data visualization platform for MBTS events and participant management
 - Integrated REST APIs and optimized performance for real-time updates
 - Designed modern UI/UX with mobile-first responsive design
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- **ESP32-Based Health Monitoring System** *ESP32, MAX30102, AD8232, Hyperledger Fabric*
 - Real-time patient vitals monitoring using ECG and SpO₂ sensors integrated with an ESP32 microcontroller
 - Secure data pipeline from edge device to Hyperledger Fabric blockchain with AES-128 encryption and role-based access control
 - Achieved under 2-second end-to-end latency, 95.4
 - Optimized hardware design delivering 72+ hours of battery-backed operation at a total cost of BDT 2,800–4,000 for low-resource settings
- **TMS Project** *React, Node.js, TailwindCSS*
 - Developed Task Management System (TMS) with dynamic dashboards and reporting features
 - Built real-time updates using WebSocket and optimized frontend performance
 - Implemented user-friendly UI/UX for task tracking and team collaboration

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PROFESSIONAL EXPERIENCE

Shop Online New York

Sep 2025 – Present

React Developer - Remote

- Developed responsive e-commerce frontend using React.js and TailwindCSS

- Integrated API endpoints and implemented TypeScript for type safety
- Collaborated with team to optimize performance and UX

BetaFore - Software & Digital Media

May 2024–Oct 2024

React Developer Intern

- Built e-commerce UI with responsive product catalog and filtering
- Worked with backend team for API integration

TechTrioZ Solutions

Jan 2023–Feb 2024

Data Entry Specialist

- Managed digital data entry systems and geospatial data processing
- Maintained 99.8% data accuracy

RESEARCH & PUBLICATIONS

- **Blockchain-Based Voting System with Hyperledger Fabric and React Interface** — Springer CCIS, ICDSAIA 2025
- **Real-Time Patient Health Monitoring Using IoT Sensors and Blockchain Technology** — Research paper on ESP32-based health monitoring with ECG and SpO₂ sensors integrated into a Hyperledger Fabric blockchain network
- **Healthcare Data Exchange Network** — Paper in progress, focusing on secure private blockchain for hospitals
- **Extended Blockchain Voting Framework** — Journal extension in progress with Zero-Knowledge Proofs and Threshold Encryption

CERTIFICATIONS

- Growth Hacking & Online Campaigns Internship — RIT & Excelerate (2025)
- React.js & Node.js — Global Skills Development Agency (2023)
- CCNAv7: Switching, Routing, and Wireless Essentials — Cisco (2024)
- CCNAv7: Introduction to Networks — Cisco (2022)
- Ethical Hacker — Cisco Networking Academy (2024)

LEADERSHIP & ACTIVITIES

- JCI Bangladesh — General Member (2023–Present)
 - * Volunteered at community events and organized sports tournaments
- Bangladesh Red Crescent Society — Member (2014–Present)
 - * Participated in disaster preparedness camps