

Md. Fakwer Uddin Mazumder

Jr. Software Engineer (Frontend)

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PROFESSIONAL SUMMARY

Detail-oriented and analytical software engineer with hands-on experience in designing and developing responsive and performant web applications using Next.js, React.js, TypeScript, and Tailwind CSS. Skilled in translating UI/UX wireframes to modular, pixel-aware interfaces, consuming RESTful APIs, and managing asynchronous state cycles (loading, error, empty views). Co-authored four research publications indexed in IEEE, demonstrating a solid basis in core engineering fundamentals, systematic debugging workflows, and problem-solving skills.

CORE TECHNICAL SKILLS

- **Frontend Development:** Next.js (App Router), React.js, TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5, CSS3, Responsive Web Design, Component-Driven Architecture.
- **Backend & Data Integration:** REST API Consumption, Node.js, Express.js (Fundamentals), Relational Database Concepts (PostgreSQL Fundamentals), Google Sheets API Integration.
- **Developer Tools & Workflows:** Git, GitHub, VS Code, Postman, Chrome DevTools, and AI-assisted development tools (Copilot, Claude, ChatGPT).
- **Engineering Principles:** State Management, Clean Code Architecture, UI Performance Optimization, Algorithmic Logic, Cross-Browser Compatibility.

EMPLOYMENT HISTORY

Founder and Developer - Nlytes, Chittagong

June 2024 – January 2026

- Engineered scalable, mobile-first web applications utilizing Next.js, React, TypeScript, and Tailwind CSS.
- Translated UI/UX designs into pixel-accurate, reusable interface components with clear layouts, typography, and spacing.
- Integrated dynamic REST APIs and server actions, implementing structured error boundaries, skeleton loaders, and empty-state handlers.
- Maintained Git version control, conducted code reviews, and utilized AI-assisted coding tools to accelerate feature delivery while maintaining clean architecture standards.

Software Engineer (IoT & Web Telemetry) - mPair Technologies Ltd, Chittagong

January 2022 – March 2024

- Developed web-based real-time telemetry dashboards in JavaScript/React to monitor and visualize field sensor data.
- Implemented and consumed low-latency REST API endpoints connecting edge hardware to cloud-hosted web interfaces.
- Executed end-to-end debugging, root-cause analysis, and cross-browser testing to optimize web interface responsiveness.
- Participated in internal sprint cycles, documentation, and quality assurance testing routines.

Technical Instructor & Trainer - Al Hasanain & Gunners English School, Chittagong

March 2026 – Present

- Deliver structured technical training on algorithmic logic, systematic problem solving, and structured programming paradigms.
- Guide students through hands-on software debugging workflows, error tracing, and functional validation.

FEATURED PROJECTS

Nlytes Business Page

Developed and deployed a responsive, SEO-focused business website for [Nlytes](#) using the Next.js App Router. Implemented reusable React components, static data-driven pages, responsive layouts, structured metadata, optimized image handling, and interactive UI elements for a consistent experience across mobile and desktop. Focused on performance, maintainability, accessibility, and clean component architecture. Built with: Next.js, React, TypeScript, Tailwind CSS, and Framer Motion.

Books of Bengal

Engineered an e-commerce storefront for an online bookstore hosted [live at booksofbengal.com](https://liveatbooksofbengal.com) to deliver a smooth book discovery and digital shopping journey. Implemented an interactive product search interface, a persistent shopping cart, and a structured multi-step checkout workflow backed by accessible, modular component primitives. Optimized page loading speeds and core web vitals through modern bundling, server-driven layouts, and a mobile-first responsive architecture. Built with Next.js, React, TypeScript, Tailwind CSS, shadcn/ui, Radix UI, Lucide Icons, and Vercel.

mPair Technologies Corporate Platform

Developed the enterprise web presence and client portfolio showcase for mPair Technologies, accessible [live at mpairtech.com](https://live.at/mpairtech.com), highlighting technical capabilities across IoT solutions, robotics, and cloud engineering. Constructed performance-tuned responsive interfaces with structured component hierarchies, animated transitions, and an SEO-friendly layout design. Ensured cross-browser stability and rapid visual rendering through progressive asset delivery, modular styling, and optimized web server asset distribution. Built with: React, JavaScript, Bootstrap, GSAP, Animate.css, and Cloudflare.

EDUCATION

International Islamic University Chittagong

Chattogram, Bangladesh

B.Sc. in **Electrical & Electronic Engineering**

Autumn 2018 – Spring 2023 | CGPA: 3.20 / 4.00

Undergraduate Project: Real-Time Smart Depot Management System-Designed automated sensor data acquisition integrated with an interactive web dashboard for real-time inventory tracking and metrics visualization.

TECHNICAL CERTIFICATIONS

- Full Stack Web Development with Node.js (40 Hours) - mPair Lab
- Scientific Research & Technical Writing - IEEE IIUC Student Branch
- Microcontroller & System Logic (45 Hours) - Desikarigor Training & Research Circle

PUBLICATIONS

- “Design and Implementation of Road Monitoring System using Embedded System and IoT” - ACIT 2024, Czech Republic (IEEE). DOI: 10.1109/ACIT62333.2024.10712498
- “Design and Implementation of Smart Head-Motion Controlled Wheelchair” - IEEE Engineering Informatics 2023, Dhaka. DOI: 10.1109/IEEECONF58110.2023.10520528
- “IoT Based Smart Automatic Water Management System with RF Communication and Remote Monitoring” - ICISSET 2022, Chittagong (IEEE). DOI: 10.1109/ICISSET54810.2022.9775927
- “Design and Implementation of Surface Disinfection Robot Using UVC Light and Liquid Sanitizer” - ICISSET 2022, Chittagong (IEEE). DOI: 10.1109/ICISSET54810.2022.9775838

ACHIEVEMENTS

- Champion Team, Embedded System Challenge Competition - IIUC Tech Fest 2020, Faculty of Science & Engineering (FSE), IIUC.
- Selected Team, National Hackathon on Frontier Technologies (Feb 2020) - “Developing an Effective Tool for Monitoring Rural Road Development Projects,” organized by “idea” at Independent University, Bangladesh.

LEADERSHIP & TECHNICAL ENGAGEMENT

- Lead Judge, Inter-University Robo-Soccer Competition - IIUC Tech Fest 2025: Evaluated teams on embedded control code, mechanical motor-driver efficiency, and wireless response speed.
- Workshop Instructor, Robo Soccer Bootcamp - IEEE Robotics & Automation Society (RAS) IIUC: Taught DC motor speed regulation (PWM), H-bridge driving logic, and wireless transceiver integration.
- Technical Facilitator, BuildNation AI Proficiency Accelerator: Co-facilitated technical workshops on AI tooling and systematic problem-solving frameworks

REFERENCES

Mohammed Abdul Kader | Associate Professor, Dept. of EEE, International Islamic University Chittagong
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