MD AKRAM HOSSAIN

FULL STACK DEVELOPER | NEXT.JS, NODE.JS, REACT & DATABASES

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PROFESSIONAL SUMMARY

Full Stack Developer with hands-on experience building and deploying end-to-end web applications. Works across responsive interfaces using **React.js, Next.js (App Router), TypeScript,** and **Tailwind CSS**, alongside REST APIs and data services built with **Node.js, Express.js, PostgreSQL, Redis,** and **MongoDB**. Comfortable with Docker-based delivery, real-time WebSockets, automation workflows, and AI API integrations.

PROFESSIONAL EXPERIENCE

Fresher Digital & Web Engineer (Remote) | Emancip8 Project *(Sep 2026 - Present)*

- Frontend and backend web development, website and web application maintenance, feature implementation, debugging and troubleshooting, API integration, and assisting with AI-powered tools and automation workflows as assigned.

Frontend Developer (Part-Time) | Bitwith Lab *(Dec 2025 - Jan 2026)*

- Built modern web interfaces using React.js and Tailwind CSS and collaborated with the team to deliver responsive user experiences.

CORE COMPETENCIES

Frontend & UI Engineering: Responsive Web Design, SSR/SSG (Next.js App Router), React.js, TypeScript, Tailwind CSS, Modern UI Architecture
Backend & Database Engineering: RESTful API Design, Real-Time WebSockets (Socket.IO), JWT/OAuth, PostgreSQL, MongoDB, Redis Caching
DevOps & Full Stack Delivery: Docker Containerization, Automated Build Pipelines, Vercel & Linux Server Deployment, Git Version Control

TECHNICAL SKILLS

Frontend & Full Stack: React.js (Vite), Next.js (App Router), TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5, CSS3, Responsive Design

Backend & APIs: Node.js, Express.js, RESTful APIs, JWT Authentication, WebSockets (Socket.IO), Supabase, Python

Databases & Caching: PostgreSQL, MongoDB (Mongoose), Redis (Caching/PubSub), MySQL, SQLite

Tools & DevOps: Docker, Linux, Git, GitHub, Vercel, Webpack, Postman, Vite, npm, CI/CD

AI Development Tools: AI APIs (Gemini/OpenAI), Prompt Engineering, Antigravity, GitHub Copilot

EDUCATION & LANGUAGES

Diploma in Computer Science & Technology | Dr. Mahbubur Rahman Mollah Institute of Science & Technology (2023 - 2027, currently pursuing)
Languages: English (Professional Working Proficiency), Bengali (Native)

KEY PROJECTS

DeployForge - Self-Hosted Deployment Platform | GitHub

Technologies Used: *Next.js 14, TypeScript, Node.js, Express.js, PostgreSQL, Redis, Docker, Socket.IO (WebSockets)*

- **Full-Stack Architecture & Dashboard:** Engineered a cloud deployment platform with Next.js 14 and Express.js for automated application packaging inside isolated Docker containers.
- **Real-Time Logs & Caching:** Integrated WebSockets and Redis pub/sub for live build log streaming and cached deployment status APIs.

Diploma Institute Management System (DIMS) | GitHub

Technologies Used: *Next.js (App Router), TypeScript, Node.js, Express.js, MongoDB (Mongoose), Cloudinary, Docker Compose*

- **Full-Stack Academic Portal:** Architected complete management system with Next.js App Router and REST APIs for student registries, department management, fee structures, notices, and exam schedules.
- **Integrations & Infrastructure:** Integrated Cloudinary file uploads, SMTP email alerts, Winston logging, and Docker Compose full-stack orchestration.

Kerygma Theological Center - Academic Platform & LMS | Live Demo

Technologies Used: *Next.js (App Router), React, TypeScript, Tailwind CSS, REST APIs*

- **LMS Architecture & Portal:** Developed the official academic web portal and Learning Management System (LMS) for course management, admissions, and student login.
- **Performance & Responsive UI:** Built fast server-side rendered (SSR) pages with Next.js App Router, achieving optimal performance and mobile responsiveness across devices.

CodeWizard - Problem-Solving Platform | GitHub

Technologies Used: *Next.js 16, TypeScript, Node.js, Express.js, MongoDB (Mongoose), Redis, Google OAuth, AI APIs (Gemini/OpenAI)*

- **Full-Stack Web App & AI Guidance:** Built full-stack coding platform featuring Redis caching for problem evaluation, submission tracking, Google OAuth, and AI assistant integration.

Myacast - Event Streaming Platform | Live Demo

Technologies Used: *Next.js, TypeScript, Video.js, HLS.js, Chart.js, Stripe Elements, REST APIs*

- **Media & Payment Integration:** Built responsive video player interfaces and secure streaming endpoints with token validation and Stripe Elements payment workflows.