

Md Tawheed Anjum

Software Engineer

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<https://0xtawheed.site>

SUMMARY

Software Engineer with 4+ years of professional experience delivering scalable full-stack solutions. Passionate about solving complex coding problems and improving system performance through thoughtful architecture and optimization. Led a team of junior developers, increasing onboarding speed while elevating code quality standards. Skilled in React.js, Next.js, Laravel and the MERN stack, with a strong focus on performance optimization, architectural design, and cross-functional collaboration. Combines a technical background in machine learning research with creative insight from UI/UX design to build impactful, efficient systems.

PROFESSIONAL EXPERIENCE

CODEMEN SOLUTIONS INC.

Software Engineer

Malibagh Chowdhury, Dhaka, Bangladesh

2022-Present

- Led projects and mentored junior developers, improving onboarding speed, code quality, and overall team performance.
- Developed and maintained scalable web applications with React.js and Next.js, implementing CSR, SSR, and SSG/ISR for improved performance, SEO, and user experience.
- Designed and implemented backend services, integrating MongoDB, ArangoDB, and Firebase for real-time data, authentication, and efficient data modeling.
- Adopted modern tools including JIRA, MPC, Cursor AI and so on to streamline workflows, improve code quality, and accelerate development cycles.
- Architected system designs for mission-critical projects, ensuring stability, scalability, and high availability.
- Integrated and customized third-party solutions such as SurveyJS, Syncfusion, and Redux Toolkit, building advanced forms, dashboards, and state management workflows.
- Maintained high code quality standards via code reviews, commit guidelines, CI/CD pipelines, and production deployments with minimal downtime.
- Collaborated cross-functionally with backend, UI/UX, and QA teams to deliver seamless integrations and on-time releases.
- Conducted technical training for international clients in English, strengthening relationships and enabling smoother adoption of new systems.

UNITED INTERNATIONAL UNIVERSITY

Research Assistant

United City, Madani Ave, Dhaka 1212

2021-2022

- Engineered and maintained full-stack web applications using Laravel and React.js for university-led research projects, improving functionality and user experience.
- Optimized and managed MySQL databases, reducing query execution time and strengthening data integrity for research applications.
- Deployed and monitored server environments, ensuring high uptime through proactive troubleshooting and efficient deployments.
- Collaborated with research clients to gather requirements, resolve issues, and deliver tailored software solutions.
- Spearheaded the development of new features based on research ideas, driving innovation and adding value to projects.

Junior Software Engineer

2021

- Assisted in maintaining and improving web applications built with Node.js, React.js, focusing on code quality and bug fixes.
- Debugged and resolved issues to enhance application stability and performance.
- Collaborated with the development team to learn best practices and contribute to ongoing projects.
- Supported code reviews and documentation to ensure maintainability and team alignment.

SKILLS

- **Frontend:** React.js, Next.js, UI/UX Design etc
- **Backend:** Node.js, Express.js, Laravel, Python 3
- **Databases:** MySQL, GraphQL, MongoDB, ArangoDB, Firebase
- **API/Query:** GraphQL, RESTful APIs, JSON, OpenAPI (Swagger)
- **DevOps/Tools:** Docker, Git, VS Code
- **Design Tools:** Figma, Adobe XD, Adobe Photoshop
- **Soft Skills:** Mentoring, Technical Training, Client Communication, Team Collaboration

EDUCATION

AMERICAN INTERNATIONAL UNIVERSITY - BANGLADESH (AIUB)

Bachelor of Science in Computer Science and Engineering (CSE)

2017-2021

PROJECTS

MEDICAL E-COMMERCE ([HTTPS://URL-SHORTENER.ME/BG9](https://url-shortener.me/BG9))

React.js, Node.js, Express, MongoDB etc (Client Project)

- Engineered a highly scalable, full-stack E-commerce platform (MERN), delivering robust transaction flows, real-time inventory synchronization, and decoupled user/admin portals for efficient system maintenance.
- Designed and Implemented granular Role-Based Access Control (RBAC) and JWT authentication, securing sensitive transaction data and enabling administrative management of thousands of product listings and complex order fulfillment workflows.

MICROSERVICES PLATFORM

Next.js, Node.js, TypeScript, Microservices Architecture, AI/ML etc (Codemen Solutions Inc, Professional Project)

- Architected and Developed a performant distributed Microservices platform, leveraging Next.js (TypeScript) for robust, type-safe API consumption and implementing SSR/SSG strategies to maximize initial page load speed.
- Engineered seamless integration of advanced third-party UI components (e.g., Ag-Grid, SurveyJS) for dynamic form generation and visualization; established the modular framework necessary for scaling to workflow automation and advanced AI-driven features.

INTELLIGENT API ENGINE

Node.js, Express, MongoDB, RESTful API etc (Personal Project)

- Architected a modular, scalable REST API Engine using Node.js/Express, designing robust middleware to handle dynamic file uploads, secure endpoints, and complex request loads across multiple business modules.
- Developed advanced MongoDB aggregation pipelines and specialized indexing strategies to facilitate efficient 'relational' joins, achieving query times of high-volume endpoint consumption.

EDUCATION MANAGEMENT SYSTEM (EMS)

Laravel , React, Payments, High-Availability Systems etc (United International University, Professional Project)

- Spearheaded front-end development (React) for core academic features (quizzes, grade results, attendance tracking) within a large-scale, Laravel-based school management system, streamlining workflow across distinct student and administrative portals.
- Integrated critical third-party services, including secure payment gateways and high-availability SMS alert APIs, ensuring reliable financial transaction handling and automated communication for time-sensitive academic notifications.

ADDITIONAL INFORMATION

- **Interests:** Artificial Intelligence & Machine Learning, DevOps Automation, System Design
- **Certifications:** Google UX Design Certificate (2023), Node.js & Express – Udemy (2024)
- **Research:** Bangla Voice Authentication System using Machine Learning
- **Languages:** Bengali (Native), English (Professional)

REFERENCES

A K M Golam Murshed

Project Manager ,
Codemen Solution Inc.
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