

Md Tawheed Anjum

Software Engineer

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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.

Malibagh Chowdhury, Dhaka, Bangladesh

Software Engineer

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

United City, Madani Ave, Dhaka 1212

Research Assistant

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.

- 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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