

EMRAN HOSSAIN

A versatile full-stack software engineer with two years of experience

+8801676987366 emranffl.biz@gmail.com emranffl emranffl emranffl.github.io/portfolio/

EXPERIENCE

Software Engineer

Dec 2024 – Present

Gain Solutions, Mirpur 12, Dhaka

Role: Backend

Designed and optimized EasyDesk's backend, building performant GraphQL APIs with ms response times. Developed serverless functions on AWS Lambda, managed AWS EC2 for scalability, and containerized microservices with Docker. Focused on security, encryption, and authentication, ensuring a reliable and efficient system.

Software Engineer

Sept 2024 – Dec 2024

ARITS Limited, Baridhara DOHS, Dhaka

Role: Full-stack

Spearheaded the development of sophisticated, responsive user interfaces, integrating advanced features like real-time data synchronization, global state management, and multi-factor authentication. Enhanced backend solutions with Next.js, implementing Drizzle ORM for seamless database interactions, leading to improved data consistency and query performance. Utilized OpenAI's free tiers for automatic topic extraction from blog content, enabling intelligent content categorization and improved SEO. Helped developing microservices for modular architecture, applying encryption techniques for secure data transactions. Streamlined deployment workflows by containerizing applications with Docker, achieving a 50% reduction in deployment time.

Junior Software Engineer

Feb 2023 – Sept 2024

ARITS Limited, Baridhara DOHS, Dhaka

Role: Full-stack

Designed over a dozen of complex and responsive UIs, implementing advanced features like global state management and authentication systems. Developed and published a couple of reusable npm packages. Built multiple backend solutions using Next.js for file handling, integrating databases such as MongoDB and PostgreSQL, and applied cryptography for data security. Containerized applications with Docker, enhancing full-stack development capabilities for over 40% of deployments.

Internship Trainee

Nov 2022 - Jan 2023

ARITS Limited, Baridhara DOHS, Dhaka

Role: Front-end

Developed web applications using Next.js, focusing on server-side rendering and creating engaging user interfaces with versatile animation libraries. Gained experience in building and integrating RESTful API endpoints and managed data fetching and state with modern libraries in front-end applications.

Freelancer

Jun 2020 - Present

Fiverr

fiverr.com/emranffl

Delivered high-quality WordPress development services, focusing plugin integration, and responsive design. Enhanced website functionality through API integrations, and performance optimizations. Skilled in implementing e-commerce solutions using WooCommerce, SEO enhancements, and content management systems to meet specific client needs. Successfully completed numerous projects, earning positive client feedback for timely delivery and attention to detail.

PROJECTS

easydesk.app | Back-end | Node.js, JavaScript, PostgreSQL, AWS

Dec 2024

- Developed high-performance GraphQL APIs with millisecond response times, leveraging Node.js, AWS Lambda, and EC2 for scalability and efficiency.
- Optimized backend architecture, implementing secure authentication, encryption, and Docker-based deployments to enhance system reliability.

betterbangladesh.io | Back-end | Next.js 14 (app route), TypeScript, MongoDB, JWT

Aug 2024

- Developed a robust backend infrastructure using Next.js and TypeScript, integrating MongoDB for data storage and JWT for authentication.

- Implemented file handling, dynamic file serving, CRUD APIs, and secure authentication/authorization mechanisms for efficient data operations and user management.

aritsltd.com | Frontend | *Next.js 14, TypeScript, WordPress, TanStack Query, Zustand* Feb 2024

- Built the front-end using Next.js and TypeScript, utilizing WordPress as a backend CMS, combining modern web technologies with robust content management.
- Features a mix of static pages and dynamic content (blogs, case studies) optimized through Incremental Static Regeneration, balancing performance with up-to-date information.

@aritslimited/commitlint | *TypeScript, ts-node, typedoc* **Repo** | Nov 2023

- Created a customized commit linting tool that integrates with Jira, enforcing commit message standards and automating issue tracking in the development workflow.
- Provides optional branch naming convention enforcement and requires specific environment variables for Jira integration, offering easy installation and configuration through npm or other package managers.

deep-object-key-alternator | *TypeScript, ts-node, typedoc* **Repo** | Oct 2023

- Developed a tool for recursively transforming nested object structures by renaming keys based on a custom mapping.
- Versatile tool that handles both individual objects and arrays, maintaining array structure while allowing deep key renaming.

merlinapp.co.uk | Fullstack | *Next.js 13, PostgreSQL, Docker, File Server, Cryptography, Microservice, WebSockets* Mar 2023

- Built & collaborated a fullstack application with **Next.js 13**/TypeScript, PostgreSQL, and Docker, employing a microservice architecture for scalability and maintainability.
- Implemented advanced features including a custom file server, robust cryptography for security, and efficient data handling across microservices.

eximtel.com | Frontend | *Next.js 12, TypeScript, Redux, Pages API Routes, Animation, SEO* Dec 2022

- Developed and maintained the frontend of Eximtel, a B2B trade insights platform offering analytics on global trade movements and containerized shipment data.
- Utilized Next.js 12 for server-side rendering and API routes, integrated TypeScript for type safety.
- Focused on optimizing performance and scalability to manage over 2 billion shipment records from customs agencies, ensuring fast and reliable insights for users tracking market share, supplier profiles, and product flows.

nsdf.org.bd | Fullstack | *Next.js 12, Laravel, TypeScript, MySQL* Jan 2022

- Led the fullstack development of NSDF, a platform supporting social wellbeing and community development initiatives in Bangladesh.
- Built the frontend using Next.js 12 for server-side rendering. Integrated Laravel for the backend, ensuring robust API management and security.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, PHP, HTML, CSS

Databases: MongoDB, PostgreSQL, MySQL

ORMs/ODMs: Sequelize, Mongoose ODM, Prisma ORM, Drizzle ORM

Technologies: Next.js, Node.js, Git, Jira, WordPress, Docker, TailwindCSS, Bootstrap, Zustand, WebSockets, Apollo GraphQL

CERTIFICATIONS

Responsive Web Development, CodersTrust Dhaka, Bangladesh
Mar 2020

EDUCATION

Computer Science and Engineering, North South University Dhaka, Bangladesh
Bachelor of Science Jan 2018 – Jun 2023