

Md Mukles Ali

Full-Stack Software Engineer | AI-Native Development

📍 Dhaka, Bangladesh ✉ muklesdev@gmail.com 🌐 github.com/mukles
🌐 tfmukles.vercel.app 🔗 LinkedIn

Professional Summary

Full-Stack Software Engineer with 3+ years of professional experience building and maintaining production web applications using React, Next.js, TypeScript, Node.js, NestJS, Python, and FastAPI. Experienced across frontend and backend development, REST APIs, authentication and RBAC, database-driven applications, caching, performance optimization, and production debugging. Built AI-powered products, headless CMS platforms, SaaS applications, and administrative systems. Comfortable working across unfamiliar codebases, owning well-scoped features, reviewing code, and collaborating with product and engineering teams.

Technical Skills

Languages	TypeScript, JavaScript, Python, SQL, HTML, CSS
Frontend	React.js, Next.js, Server Components, SSR, SSG, ISR, Tailwind CSS
Backend	Node.js, NestJS, Express.js, FastAPI, REST APIs, API Design
Databases	MongoDB, PostgreSQL fundamentals, database schema design, indexing, query optimization, migrations
Architecture	Authentication, Authorization, RBAC, REST, caching, background processing, API security, modular architecture, headless CMS
Infrastructure	Docker, Redis, S3/MinIO, Vercel, deployment workflows, CI/CD fundamentals
AI Engineering	Gemini APIs, streaming AI responses, RAG, vector search, AI tutoring systems, Langfuse, AI-native development
Tools	Git, GitHub, pnpm, VS Code, Cursor, Linux/macOS
Engineering	Code review, debugging, performance optimization, technical documentation, problem solving, Agile development

Professional Experience

Innospace Infotech Ltd.

Software Engineer (Full Stack)

Sep 2025 – Present

Dhaka, Bangladesh

- Develop and maintain production web applications across frontend and backend using React, Next.js, TypeScript, Node.js, and NestJS.
- Build REST APIs, authentication flows, authorization, RBAC, validation, and database-backed application features.
- Work across existing production codebases to implement features, investigate defects, and resolve application issues.
- Contribute to frontend architecture, reusable components, server-side rendering, caching, and performance optimization in Next.js applications.
- Work with MongoDB and application-level data models, including schema design and query optimization.
- Contribute to Docker-based development and deployment workflows and collaborate through Git-based development and code review.
- Collaborate with designers, engineers, and stakeholders to deliver company web products and internal systems.

Themefisher

Full-Stack Developer

May 2023 – Sep 2025

Remote

- Progressed from intern-level frontend development to full-stack development, contributing to production SaaS and web applications.
- Built production features using React, Next.js, Node.js, TypeScript, MongoDB, and REST APIs.
- Primary engineer on **Sitepins** (headless CMS) and contributor to **UIHut** (design SaaS) across frontend, backend, authentication, and administrative functionality.
- Implemented and maintained production features, bug fixes, administrative workflows, and reusable application components.
- Collaborated with engineering and product teams to translate requirements into maintainable production software.

Selected Projects

Brritto AI Tutor

AI-powered learning platform

- Built and maintained an AI-powered tutoring platform using Next.js, TypeScript, FastAPI, MongoDB Atlas, Redis, and Gemini APIs.
- Implemented AI chat streaming using Server-Sent Events (SSE), enabling incremental AI responses for a responsive tutoring experience.
- Implemented protected routes, authentication, access/refresh token flows using HttpOnly cookies, and role-based access control.
- Integrated MongoDB Atlas vector search for retrieval-based AI experiences and connected supporting services including Redis, Langfuse, and S3/MinIO.
- Worked on production release management, backend APIs, administrative functionality, subscription/payment workflows, and application debugging.

Sitepins

Headless CMS / Multi-site Platform

- Contributed as a primary engineer to a headless CMS platform for managing content across multiple websites.
- Built full-stack functionality using Next.js, Node.js, MongoDB, REST APIs, authentication, authorization, and an administrative dashboard.
- Implemented role-based access control and APIs for multi-site content management workflows.
- Worked on application architecture, production debugging, reusable components, and database-backed features.

UIHut

Design SaaS Platform

- Developed production SaaS functionality using React, Next.js, Node.js, MongoDB, and REST APIs.
- Contributed to frontend experiences and backend services, including authentication and application workflows.
- Implemented reusable UI components and production features while maintaining existing application functionality.

BAPUS

Web Application

- Contributed to production application development using React/Next.js and backend APIs, covering feature implementation, bug fixing, maintenance, and backend service integration.

Selected Engineering Achievement

- Infrastructure Cost Optimization:** Redesigned ISR and caching strategies in a production Next.js application, cutting revalidation compute by approximately **90%** and reducing infrastructure cost from more than **\$200/month to under \$5/month**.

Education

B.Sc. in Computer Science & Engineering <i>European University Bangladesh</i>	<i>Bangladesh</i>
Diploma in Computer Science & Technology <i>Tangail Polytechnic Institute</i>	<i>Bangladesh</i>

Additional Strengths

- Strong interest in software architecture, system design, backend engineering, AI engineering, security, and cloud infrastructure.
- Experienced working with production systems rather than only academic or tutorial projects.
- Comfortable learning unfamiliar technologies and adapting to different project requirements and codebases.
- Interested in international, cross-functional, and client-facing engineering environments.

Portfolio

Portfolio | GitHub | Sitepins | Sitepins App | UIHut | Brritto