

HOSSAIN AHMMED TAUFIQ

Software Engineer · Backend · AI/ML Systems

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[LinkedIn](#) · [GitHub](#) · [Portfolio](#)

SUMMARY

Software Engineer with 3+ years of experience building scalable full-stack web applications, backend services, and AI-powered products. Experienced in React, Next.js, Node.js, Express, TypeScript, PostgreSQL, MongoDB, and modern LLM integrations. Founder of Softlligence Technologies and contributor to production software used by businesses and educational institutions. Currently pursuing a B.Sc. in Computer Science while conducting research in Multimodal RAG and Deep Learning.

TECHNICAL SKILLS

Programming Languages: TypeScript, Python, JavaScript, Java, C++, SQL

Frontend: React.js, Next.js, React Native, Tailwind CSS, HTML5, CSS3, Redux, Framer Motion

Backend: Node.js, Express.js, Django, REST APIs, GraphQL, JWT, Microservices, WebSockets

AI / ML: LLM Integration, RAG Systems, LangChain, Scikit-learn, TensorFlow, Gemini API, Prompt Engineering

Databases: PostgreSQL, MySQL, MongoDB, Firebase

Cloud & DevOps: Git, GitHub, GitHub Actions, Docker, AWS, Vercel

Methodologies: Agile, CI/CD, Testing, OOP, DSA

PROFESSIONAL EXPERIENCE

Software Engineer · ZERODEVs LTD · Bangladeshi SaaS & Software Development Company

Jan 2025 – May 2026

On-site

- Engineered full-stack SaaS applications using Node.js, Express.js, MySQL, REST APIs, Next.js, and TypeScript, delivering scalable and production-ready software solutions.
- Developed the official platform for SHORBORNO School ERP, serving 100+ educational institutions across Bangladesh while improving application performance, maintainability, and user experience

Full-Stack Developer · Brooksource · Enterprise React Consultancy

Apr 2023 – Sep 2024

Remote · US-based staffing firm delivering React solutions to Fortune 500 clients

- Developed and maintained production React.js + TypeScript applications with Redux serving high-traffic enterprise clients.
- Reduced front-end load time by 20% through code splitting, lazy loading, and bundle optimisation; designed API integration layers that measurably reduced cross-service latency.
- Consistently shipped features ahead of schedule across distributed Agile teams spanning multiple time zones.

SELECTED PROJECTS

Mango Electric Vehicle Website · Node.js · Tailwind CSS · PostgreSQL · Express.js · Next.js · TypeScript · AWS · Framer Motion

[Live URL](#) · [Private Repo](#)

- Engineered a scalable full-stack platform using Next.js, Express.js, and PostgreSQL, implementing secure reservation workflows, inquiry management, payment integration, and role-based backend APIs.
- Optimized Core Web Vitals through server-side rendering, image optimization, caching strategies, and SEO best practices, delivering a fast, responsive, and accessible user experience.

Playpen School Website [Ongoing] · Payment Gateway · Next.js · TypeScript · Node.js · Tailwind CSS · PostgreSQL · Express.js · AWS

[Live URL \(Current Production\)](#) · [Personal Preview](#) · [GitHub](#)

- Developed a production-ready school management platform enabling online admissions, tuition payments, event management, and parent engagement through an intuitive web interface.
- Built reusable UI components and secure backend services with TypeScript and Express.js, improving maintainability, scalability, and future feature development.

SHORBORNO - School Management ERP (SaaS) · RestfulAPI · Node.js · Next.js · Express.js · MySQL · TypeScript · Framer Motion

[Live URL](#) · [Private Repo](#)

- Developed and maintained the official SaaS platform website for a cloud-based School ERP serving **100+ educational institutions**, emphasizing scalability, performance, and responsive design.
- Implemented modern frontend architecture, API integration, and SEO optimization while collaborating with stakeholders to deliver production-ready features aligned with business requirements.

AI CRM – Web, Mobile & Telegram Bot · Next.js · Express.js · MongoDB · Gemini 2.5 · Kotlin · Telegram API · Tailwind CSS

[GitHub](#)

- Built an AI-powered CRM ecosystem across web, Android, and Telegram platforms, integrating Gemini 2.5 for intelligent task automation, content generation, and conversational workflows.
- Designed scalable REST APIs, real-time messaging workflows, and secure data management, enabling seamless synchronization across multiple client applications

FocusFlow –Desktop App · Python · PySide6 · Matplotlib

[GitHub](#)

- Architected a fully offline productivity application using Python and PySide6, integrating task management, habit tracking, calendar scheduling, note-taking, analytics, and automated backup systems
- Designed a modular desktop architecture with local data persistence and interactive data visualization, providing a fast, privacy-focused productivity solution without cloud dependencies.

RESEARCH

Multimodal RAG with Cross-Modal Hallucination Reduction · North South University

Aug 2025 – Present

Supervisor: Dr. Nabil Bin Hannan · Preparing for conference submission

- Designed and implemented a multimodal Retrieval-Augmented Generation (RAG) framework integrating text, images, and tables, applying cross-modal hallucination reduction techniques to improve factual consistency and reliability in LLM-generated responses.

Multi-Task ML for Band Gap & Formation Energy Prediction · North South University

Sept 2025 – Jan 2026

[Publication](#)

- Developed a multi-task deep learning model for simultaneous band gap classification and formation energy prediction, achieving higher predictive performance and computational efficiency compared to single-task baseline models.

Validating Stock Market Price Predicting Algorithms · North South University

Mar 2026 – Present

[Publication](#) · [GitHub](#)

- Built an end-to-end machine learning pipeline for stock price forecasting using financial time-series and news sentiment analysis, evaluating ARIMA, LSTM, Random Forest, XGBoost, and LightGBM models, with Random Forest achieving the best predictive accuracy.

EDUCATION

B.Sc. Computer Science & Engineering · North South University, Dhaka

Expected Dec 2026

- CGPA: 3.83/ 4.00 · Relevant Coursework: DSA, Machine Learning, AI, Software Engineering, Database Systems, Web Development
- Research: Epilepsy Detection (Deep Learning) · Multimodal RAG (NLP/CV)

HSC, Science · Notre Dame College, Dhaka

Jan 2020

- GPA: 5.00 / 5.00
- Volunteered in organizing and hosting college events.
- Developed teamwork, leadership, public speaking, and event management skills.

CERTIFICATIONS & LANGUAGES

Certifications: Full-Stack Web Dev (Programming Hero) · DSA (Udemy & Phitron) · AI & ML (GP Academy, Programming Hero, Udemy) · Public Speaking (BYLC) · Bash Scripting (freeCodeCamp) · Arduino (Gobeshona)

Languages: Bangla — Native · English — Professional Fluency (written & spoken)