

HOSSAIN AHMMED TAUFIQ

Full-Stack Engineer · Backend & AI/ML Systems

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

SUMMARY

Full-Stack Engineer with 3+ years of experience specialising in Node.js, GraphQL & REST API design, and LLM-integrated backend systems. Founded Justkaaj — a live, investor-pitched service marketplace built on Next.js, Node.js, PostgreSQL, and a custom ML recommendation engine. Final-year CS student (CGPA 3.79/4.0) with two active deep-learning research projects at North South University. Proven track record of shipping production features ahead of schedule, reducing system failures, and leading engineering teams — looking to bring that execution to a high-growth backend or full-stack engineering team.

TECHNICAL SKILLS

Backend: Node.js, Express.js, Django, REST APIs, GraphQL, Microservices
AI / ML: Scikit-learn, TensorFlow, Deep Learning, RAG Systems, EEG Processing, Gemini API, LLM Integration
Languages: Python, JavaScript, TypeScript, Java, C++, SQL, C#, .NET
Frontend: React.js, Next.js, Tailwind CSS, HTML5, CSS3
Databases: PostgreSQL, MySQL, MongoDB, Firebase, Query Optimisation
Mobile: Kotlin (Android), React Native
Tools: Git, GitHub, GitHub Actions (CI/CD)
Others: Web Scraping, Automation, DSA & CP

PROFESSIONAL EXPERIENCE

Founder & CEO · Justkaaj · Service Marketplace Startup

Apr 2024 – Present

Dhaka, Bangladesh

- Architected and launched a full-stack service marketplace (Next.js, Node.js, PostgreSQL) featuring a custom ML recommendation engine — scaled to 500+ active users and 200+ service providers in production.
- Engineered secure REST APIs, role-based authentication, real-time dashboards, and an admin control panel, cutting manual operations overhead by 40%.
- Led a cross-functional team of 4-6 engineers and designers through full product lifecycle — sprint planning, system architecture, code reviews, and roadmap execution.
- Secured government funding programme support and pitched to international investors, validating product-market fit.

Full-Stack Developer · Brooksource · Enterprise React Consultancy

Apr 2023 – Sep 2024

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

- Built 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.

Web Developer · Americares · Global Non-Profit Health Organisation

Nov 2022 – Jun 2023

Remote · International NGO operating in 25+ countries

- Developed mobile-first React.js applications used by staff across global operations, integrating third-party APIs and internal services.
- Reduced backend request failure rate by 25% through robust error handling, retry logic, and response caching; hardened auth with JWT, input validation, and HTTPS enforcement.

SELECTED PROJECTS

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

[Live URL](#) · [GitHub](#)

- Playpen School Website is a platform that represents the school and allows parents to book school services (Admission, Payment, School Activities) online.

NSU ACM SC Website · Next.js · TypeScript · Static Rendering · CDN · Tailwind CSS

[Live URL](#) · [GitHub](#)

- Official chapter website achieving sub-second load times via static rendering and aggressive CDN caching; clean TypeScript architecture for long-term maintainability.

Justkaaj – Service Marketplace · Next.js · Node.js · PostgreSQL · ML · Express.js · Payment Gateway · AWS

[Live URL](#) · [GitHub](#)

- Production marketplace connecting customers with local service providers; ML recommendation engine, multi-role auth, user & admin dashboards. Modular backend built for horizontal scale.

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

[[Live URL](#)] · [GitHub](#)

- Full-featured CRM with Gemini 2.5 AI automation for intelligent task management; extended to a native Android app (Kotlin) and Telegram bot enabling voice and chat-based CRM workflows.

RESEARCH

Epilepsy Detection via Deep Learning on EEG Signals · North South University

Mar 2025 – Present

Supervisor: Dr. MD. Sumon Hossain · Preparing for journal submission

- Preprocessing raw EEG signals, designing CNN/LSTM architectures, and evaluating models for automated seizure detection — targeting clinical-grade accuracy benchmarks.

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

Aug 2025 – Present

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

- Designed a multimodal RAG pipeline combining text, image, and table retrieval; implemented hallucination-mitigation techniques to improve factual consistency across modalities.

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

[Publication](#)

- Joint classification + regression model for accelerated materials property prediction — outperforming single-task baselines on key benchmark metrics.

Validating Stock Market Price Predicting Algorithms · North South University

[Publication](#) · [GitHub](#)

- End-to-end Jupyter pipeline forecasting stock movement by merging Yahoo Finance historical data (BSE index) with Indian news headline sentiment via TextBlob polarity and subjectivity scores. Workflow covers data collection, EDA, stationarity testing, date-based feature merging, and model comparison — ARIMA baseline, LSTM multi-step forecasting, and regression models including Random Forest, XGBoost, LightGBM, AdaBoost, and Decision Tree. Random Forest achieved the lowest MAE on the test split among evaluated models.

EDUCATION

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

Expected Dec 2026

- CGPA: 3.79 / 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)