

TASNEEM ABDULLAH AURNOBB

Full Stack Developer

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PROFESSIONAL SUMMARY

I'm a full-stack software engineer and CS undergrad at North South University. My experience lies in taking projects from concept to launch, whether that means structuring a multi-tenant backend in **Next.js 15** and **Node.js** or deploying equitable ML models. I want to bring this end-to-end technical approach to **NazX** to build reliable digital tools for founders and SMEs.

TECHNICAL SKILLS

Frontend: Next.js 15, React, TypeScript, Tailwind CSS, Zustand, Zod

Backend: Node.js, Express.js, REST APIs, WebSockets, Agora SDK (VoIP)

Databases: MongoDB, SQL

AI / ML: Multi-Agent Systems, Explainable AI (SHAP), Fairness Metrics, Optuna, NumPy, Pandas, Matplotlib, Streamlit

DevOps & Tools: Git, Linux server management, high-load infrastructure optimisation

Design: Glassmorphism, Dark Teal design systems, Premium SaaS UI/UX

KEY PROJECTS

Syntroph CRM · *Next.js 15, TypeScript, WebSockets, Agora SDK, Tailwind CSS*

- ▶ Architecting a **multi-tenant SaaS CRM** with Next.js 15 and a custom glassmorphic dark-teal design system.
- ▶ Implementing **real-time collaboration** via WebSockets — live presence, typing indicators, and instant notifications.
- ▶ Building an integrated **VoIP module** with the Agora SDK: draggable dialpad, call timer, and automated call logging.

Full-Stack E-Commerce Platform · *React, Node.js, Express, MongoDB (MERN)*

- ▶ Designed and deployed a full-featured e-commerce app covering **authentication, product catalogue, cart, and checkout**.
- ▶ Optimised **MongoDB schemas and queries** for performant, secure data handling at scale.

Autonomous Oncology Board · *Multi-Agent AI, AMD MI300X, Python*

- ▶ Developed a **multi-agent AI system** simulating complex oncological decision-making workflows.
- ▶ Optimised large-scale model inference on AMD MI300X GPUs with efficient **VRAM budgeting** strategies.

FairICU — ICU Early Warning System · *Streamlit, SHAP, Python, eICU-CRD*

- ▶ Built an ML model predicting patient deterioration **6 hours in advance** with SHAP-based explainability.
- ▶ Evaluated fairness across age, gender, and ethnicity, minimising disparity gaps for equitable clinical AI.

FitnessDiet Chatbot · *Gemini, Mistral, LLaMA, Python*

- ▶ Engineered a **multi-LLM conversational AI** for fitness and nutrition, localised for the Bangladeshi market.
- ▶ Built a personalised workout generator adapting to user goals and regional equipment constraints.

Minecraft Server Infrastructure · *Linux, DevOps, High-Load Systems*

- ▶ Managed Bangladesh's largest Minecraft server handling **2,000+ concurrent users** with a 20-member tech team.
- ▶ Led security updates, uptime maintenance, and **backend performance optimisation** under sustained high-load.

Digital Transaction Forecaster · *Linear Regression, NumPy, Pandas, Matplotlib*

- ▶ Implemented a **custom Linear Regression** from scratch with vectorised NumPy, MSE cost function, and Gradient Descent.
- ▶ Built an end-to-end pipeline for preprocessing Bangladeshi financial data and visualising model convergence.

WORK EXPERIENCE

Coordinator, Marketing & Media | **North South University Shanskritik Shangathan** *2021 – Present*
Dhaka, Bangladesh

- ▶ Directed marketing and media strategies for large-scale university events, securing sponsorships from global firms including **ACER**.
- ▶ Led corporate communication and negotiation with senior stakeholders to secure high-value partnerships.
- ▶ Managed end-to-end event logistics for internal and external cultural sessions.

EDUCATION

B.Sc. in Computer Science and Engineering *2021 – Present*
North South University, Dhaka
Research interest: Machine Learning and Deep Learning

Advanced Levels (A-Levels) *2019–2020*
International Hope School Bangladesh

Ordinary Levels (O-Levels) *2018*
International Hope School Bangladesh

CERTIFICATIONS & ACHIEVEMENTS

- ▶ **Machine Learning Specialization** — Andrew Ng & Coursera
- ▶ **Full-Stack Development with MERN** — Ostad (2023)
- ▶ **Silver Medalist** — Genius Olympiad, New York (Short Film, 2017)
- ▶ **Country Champion** — IoT Competition by UTS and Austrade (2018)