

NIYAZ AHMAD KHAN

Software Engineer & Applied ML Researcher

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Final-year Computer Science & Engineering student who builds and ships full-stack software end-to-end, and researches machine learning rigorously enough to publish it. Has independently designed, deployed, and monitored production web applications, and authored a Scopus-indexed paper evaluating synthetic data in supervised learning. Comfortable moving between building product and investigating open questions. Currently extending that research instinct into applied LLM and agentic-AI systems.

TECHNICAL SKILLS

- Languages: Python, Java, C, C++
- Compiler Construction: Flex (lexer), Bison (parser generator), AST design & interpretation
- Frontend: React, Vue.js, HTML, CSS, Tailwind
- Backend: Node.js, Express, PHP
- Databases: MySQL, MongoDB
- Machine Learning: NumPy, Pandas, Scikit-learn, PyTorch (fundamentals), model training & evaluation
- DevOps & Cloud: Docker, Microsoft Azure (Azure Fundamentals certified)
- Tools & Design: Git, Figma, Adobe Photoshop, Adobe Illustrator

EXPERIENCE

GTM Engineer — IntelliGency Solutions

Oct 2025 – Jun 2026

- Built and shipped client-facing platforms end-to-end, including a full doctor's appointment booking system, from requirements through deployment.
- Wrote workflow documentation that reduced miscommunication and sped up delivery across a distributed team.
- Worked directly with clients to translate business requirements into engineering specifications.

GDA (Customer Service) — Domino's Pizza Bangladesh

Oct 2024 – Apr 2025

- Resolved customer escalations independently and coordinated cross-functional team scheduling under time pressure.

Senior Visual Designer — Islamic Online Madrasah (IOM)

Jan 2020 – Jan 2022

- Promoted from graphic designer to senior visual designer; created educational content that increased engagement across social and promotional channels.

PROJECTS

Sylheti Programming Language & Online Compiler (C, Flex, Bison, AST Interpreter)

- Designed an original programming language with Sylheti-dialect keywords and built its lexer and parser using Flex and Bison, with an AST-based interpreter for execution.
- Implemented conditionals, loops, functions, and logical/arithmetic operators as first-class language constructs, not just string-substitution tricks.
- Built and deployed a live, in-browser interactive playground where users write and execute Sylheti-language code directly online, plus a public language manual on GitHub.
- Designed as an educational on-ramp: lets Sylhet-region students learn core computational thinking (conditionals, loops, logic) in a familiar language before shifting to mainstream languages like Python or C.

CampusBite — Canteen Management & Pre-Order Platform (Vue.js, Node.js, MySQL)

- Designed and deployed a real-time ordering system solving campus canteen congestion; live-monitored via UptimeRobot on Vercel.

HealthBridge — Healthcare Management Web App (HTML, CSS, PHP, MySQL)

- Team-built a multi-module system covering appointment booking, donor management, and pharmacy inventory on a shared schema.

Parlor Management System — Desktop Application (Java, Swing)

- Built a Java Swing desktop app with registration, admin controls, and a treatment-recommendation module.

RESEARCH & PUBLICATIONS

- Can Synthetic Data Replace Real Data? Evaluating the Efficacy, Limits, and Label Trustworthiness of Generative Data in Supervised Learning — Published, EFAST 2026 (Scopus-indexed).
- How Much of Your BLEU Is Copied? Quantifying Named-Entity Inflation in FLORES+ Evaluation of Low-Resource Machine Translation — Prepared for ICCIT 2026 (IEEE).
- The Impact of Social Media Use on Student Productivity: A Behavioral Economics Perspective — Abstract accepted, NICSDG 2026.
- Student Performance Prediction Using Machine Learning — University thesis, Artificial Intelligence course.

EDUCATION & CERTIFICATIONS

- B.Sc in Computer Science & Engineering — Metropolitan University, Sylhet (2023–2026, final semester)
- Certifications: DSA From Fundamentals to Advanced (Progsity) · PyTorch Essential Training: Deep Learning (LinkedIn) · Introduction to Docker for Java (LinkedIn) · Microsoft Azure Fundamentals (Microsoft)

ACHIEVEMENTS

- Champion — MU CSE FEST 2024, Design Segment (MU CSE Society)
- Finalist — Intra Metropolitan University Programming Contest 2025 (MU CSE Society)
- Two national government scholarships (PSC and JSC board exams)

EXTRACURRICULAR

- Executive Member, MU Robotics Club • General Member, CSE Society & MU Geography and Astronomical Society • Design Secretary, MU Islamic Society (organized Seerah Conference 2025)