Nafiz Khan

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Profile

I am a final-year Computer Science and Engineering student at BRAC University, aiming to build a career in software engineering. Currently, I am working on a research paper on adversarial attacks against large language models (LLMs), combining interests in AI security and system-level problem solving. With a strong foundation in data structures, algorithms, and system design, I am passionate about building scalable, efficient software solutions. I am focused on sharpening my engineering skills and contributing to forward-thinking tech initiatives that drive meaningful innovation.

Portfolio: nafiz68.github.io

Skills

- **Programming Languages:** Python, C, JavaScript (ES6+), SQL, Solidity, PHP, Assembly, Verilog/VHDL, HTML, CSS
- **Frameworks & Libraries:** MERN Stack (MongoDB, Express.js, React.js, Node.js), Hyperledger Fabric, PyTorch, Scikit-learn, NumPy, Web3.js, OpenGL
- **Blockchain & Tools:** Smart Contracts (Solidity, Chaincode), Ethereum, Docker, Ganache, Truffle, Postman
- **Hardware & Embedded Systems:** Arduino, STM32, Raspberry Pi, VLSI Design, Emu8086, Quartus II 8.1
- **Operating Systems & Tools:** Linux commands, Git, GitHub, Jira, Figma

Education

BRAC University — BSc in Computer Science and Engineering — Jan 2022 – Jan 2026
- GPA: 3.63 / 4.00

Adamjee Cantonment College — Higher Secondary Certificate (HSC) — 2018 – 2020
- GPA: 5.00 / 5.00

Bangladesh International School and College — Secondary School Certificate (SSC) — 2004 – 2018
- GPA: 5.00 / 5.00

Projects

Thesis Management System
- Developed a web-based platform to streamline thesis submission, progress tracking, and supervision for students and faculty.
- Tools Used: MongoDB, Express.js, React.js, Node.js (MERN stack), HTML, CSS

DisasterGuard DApp — Blockchain Disaster Recovery Training Platform
- Built a decentralized application (DApp) for training and awareness in disaster recovery, leveraging blockchain for secure certification and training records.
- Tools Used: Solidity, Ethereum, Web3.js, React.js, Ganache

BlockProperty — Decentralized Property Registry on Hyperledger Fabric
- Blockchain-based property registry system ensuring transparent, secure, and tamper-proof land ownership records.
- Tools Used: Hyperledger Fabric, Node.js, Docker, Smart Contracts (Chaincode)

VaDE — Variational Deep Embedding for Face Clustering
- Implemented Bayesian deep clustering on Olivetti Faces dataset.
- Tools Used: Python, PyTorch, Scikit-learn, NumPy

Rush-n-Dodge – GLproject
- 2D driving simulator game in Python using Pygame and OpenGL.
- Tools Used: Python 3.x, Pygame, OpenGL

Software-Course-Management-System
- Web-based platform for managing university courses, allowing administrators to create courses, assign instructors, enroll students, and track academic progress.

- Tools Used: HTML, CSS, Node.js, React, MongoDB

The Science of Cinema: Predicting Movie Ratings
- Implemented machine learning models to predict movie ratings based on various features, analyzing data from multiple sources.
- Tools Used: Python, Pandas, Scikit-learn

Experience

IT Instructor, Zentorra — Dhaka, Bangladesh Feb 2025 – Jul 2025
- Delivered recorded classes on Python fundamentals and project-based learning for beginner-level students.

Private Tutor, Self-Employed — Dhaka, Bangladesh Jan 2024 – Apr 2025
- Tutored undergraduates in Python Data Structures and Computer Graphics, focusing on recursion, trees, OpenGL, and academic support.

Research Experience

Undergraduate Researcher, BRAC University, CSE Jan 2025 – Present

Title: Noise-Injection Defense Against Quantization Attacks on LLMs
- Investigating controlled noise in model weights to defend LLMs against quantization attacks.
- Evaluating effectiveness without architecture changes or heavy fine-tuning.

Achievements

- Completed an **Intermediate ChatGPT** course on DataCamp, focusing on advanced prompt engineering and understanding GPT architecture.
- Completed the **Learn Blockchain and Cryptocurrency from Beginning** course on Udemy, gaining foundational knowledge in blockchain, Bitcoin, crypto exchanges, and DeFi.
- Completed the **Intro to Machine Learning** course on Kaggle, learning practical data science and ML applications.
- Completed the **Introduction to Microsoft 365 Copilot** course on Microsoft Learn, understanding AI integration in productivity tools.
- Completed the **AI Foundation** course on AI Certs, covering core AI concepts, machine learning, ethics, and business applications.
- Completed the **Intermediate SQL** course on DataCamp, mastering aggregate functions, sorting, grouping, and data presentation.