

SAJIDUR RAHMAN SAJID

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ABOUT ME

Software Engineer and AI Developer engineering the bridge between high-throughput backend systems and intelligent machine learning models. Adept at turning complex architectural problems into elegant, production-ready code.

EXPERIENCE

- Ledgercross** Dhaka, Bangladesh
Software Developer Trainee May 2026 – Present
 - Engineered an AI invoice processing microservice using Python (FastAPI), PostgreSQL, and Cloudflare R2.
 - Implemented an asynchronous distributed processing engine utilizing Redis Streams and BullMQ.
 - Authored 218 automated pytest test cases covering API endpoints, queue workers, and multi-tenant RLS.
- Bangladesh Software Solution (BSS)** Dhaka, Bangladesh
Software Engineer Intern Feb. 2026 – Apr. 2026
 - Developed responsive frontend interfaces utilizing HTML5, CSS3, and modern JavaScript (ES6+).
 - Integrated frontend layout structures with backend RESTful APIs with robust error handling.
 - Collaborated in agile development workflows utilizing Git for version control and system deployment.

PROJECTS

- InvoicePilot (Ledgercross Product)** | *Python, FastAPI, React 19, PostgreSQL, Redis*
 - Designed an 11-stage processing pipeline for automated Mindee OCR extraction and fraud detection.
 - Authored a Web3 cryptographic seal kernel in Solidity to record tamper-evident verification hashes.
 - Configured dead-letter queues and exponential backoff retries for fault-tolerant background jobs.
- LedgerTurf** | *React, Node.js, Express, MongoDB Atlas, Redux*
 - Built a full-stack MERN turf booking ecosystem featuring geo-spatial MongoDB 2dsphere indexing.
 - Eliminated booking race conditions and scheduling conflicts via atomic database query validations.
- FinBERT Financial Sentiment Analysis** | *PyTorch, Hugging Face, NLP*
 - Fine-tuned domain-specific transformer models (FinBERT) to classify sentiment in financial text datasets.
 - Implemented comprehensive NLP preprocessing pipelines for tokenization and model optimization.
- Face Recognition System** | *Python, OpenCV, LBPH*
 - Developed a real-time face recognition system leveraging OpenCV and Local Binary Patterns Histograms (LBPH).
 - Engineered efficient image processing pipelines for accurate feature extraction and identification.
- 3D City Simulator** | *C++, OpenGL, Computer Graphics*
 - Built a 3D simulated city featuring dynamic day/night cycles, weather effects, and traffic light logic.
 - Implemented real-time graphics rendering pipelines and interactive keyboard controls using C++ and OpenGL.
 - Developed immersive urban layouts and control systems for advanced computer graphics applications.

EDUCATION

- American International University-Bangladesh (AIUB)** Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering | CGPA: 3.92/4.00 Sep. 2022 – Apr. 2026
- BAF Shaheen College Dhaka** Dhaka, Bangladesh
Higher Secondary Certificate (HSC), Science | GPA: 5.00/5.00 June 2019 – Dec. 2021
- Kurmitola High School & College** Dhaka, Bangladesh
Secondary School Certificate (SSC), Science | GPA: 5.00/5.00 Jan. 2017 – Feb. 2019

THESIS & RESEARCH

Neuro-Screen: Hybrid AI Framework for Cognitive Impairment Detection | *CatBoost, PyTorch*

- Engineered a dual-path hybrid ensemble fusing gradient boosting classifiers and deep neural networks.
- Achieved state-of-the-art performance with 95.20% accuracy and 0.982 ROC-AUC across 2,237 student records.
- Identified mental fatigue, stress frequency, and sleep quality as primary predictive drivers of cognitive decline.

CERTIFICATIONS SPECIALIZED TRAINING

IBM Full-Stack JavaScript Developer Professional Certificate | *Coursera*

- Completed comprehensive full-stack development training covering frontend and backend microservices.
- Built capstone projects including interactive shopping applications and RESTful review systems.

Blockchain, Ethereum & Solidity Development | *Udemy*

- Mastered smart contract programming, decentralized applications (DApps), and EVM mechanics.

TECHNICAL SKILLS

AI & Machine Learning: PyTorch, Hugging Face, Scikit-learn, OpenCV, CatBoost

Programming Languages: Python, Java, C/C++, C# (.NET), SQL, TypeScript, JavaScript, Solidity

Web Development: React, Next.js, FastAPI, Node.js, Express, HTML5, CSS3

Backend & Databases: PostgreSQL, MySQL, SQL Server, MongoDB, Redis Streams, Qdrant

Tools & DevOps: Git, Docker, Celery, BullMQ, Jupyter Notebook, Cloudflare R2

HONORS & AWARDS

5x Dean's Award Recipient & AIUB Merit Scholar | *AIUB*

2022 – 2026

- Awarded 70% tuition waiver for academic excellence alongside 5 consecutive Dean's Award recognitions.

The Duke of Edinburgh's Bronze Award | *AIUB*

2025 – 2026

- Completed rigorous requirements encompassing community service, skill development, and expedition tasks.

LEADERSHIP EXTRACURRICULAR ACTIVITIES

Student Activity Coordinator | *Space Innovation Camp*

2022 – 2025

- Led robotics and UAV engineering workshops mentoring over 500 students.

Public Relations Representative | *WRO Bangladesh*

2023 – 2024

- Coordinated media communications and logistics for national robotics competitions.

REFERENCE

Md. Nazmul Hossain

Assistant Professor, Dept. of CSE, AIUB

PhD Candidate & Casual Academic Staff, ACU, Australia

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