

Sanjida Jannat Anannaya

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Mohammadpur, Dhaka - 1204, Bangladesh



OBJECTIVE

I'm enthusiastic and passionate about Software Engineering, with hands-on experience in Machine Learning, Deep Learning, and Quantum Computing. I am dedicated to building impactful solutions that bridge the gap between progressive research and experiential applications, and determined to build a successful career as a Software Engineer in a reputed organization.




EDUCATION

- **United International University** Spring 2020 — Fall 2024
BSc. in Computer Science and Engineering
Dhaka, Bangladesh
◦ CGPA: 3.71/4.00
- **Barguna Govt. College, Barguna** 2018
Higher Secondary School Certificate, Group: Science
Barisal, Bangladesh
◦ GPA: 5.00/5.00
◦ Scholarship: General

EXPERIENCE

- **Research Assistant** March 2025 - Present
United International University  United City, Madani Ave, Dhaka, Bangladesh
◦ Developed a hybrid deep learning pipeline utilizing quantum computing.
◦ Implemented advanced methods, enhancing model reliability across diverse test scenarios.
◦ Conducted detailed analysis on feature representations, CBAM tuning.
◦ Collaborated on experimental design.
◦ Contributed in documentation, literature review and paper preparation for publication.
- **Undergraduate Teaching Assistant (UGA)**
United International University  United City, Madani Ave, Dhaka, Bangladesh
◦ Managed to facilitate course content and materials with the lab faculty.
◦ Checked and evaluated assessments, and judged lab projects.
◦ Courses supervised: Programming in C++, Object-Oriented Programming, and, Data Structure Algorithm.

UNIVERSITY PROJECTS

- **Brew-Breeze Shop** 
Tech stack: [Spring Boot, Maven, Java, React, PostgreSQL, HTML, CSS, JavaScript]
◦ A full-stack monolithic web application designed for a coffee dessert shop, enabling users to browse products, customer interactions, add items to cart, and manage orders with an admin dashboard using Spring Boot (JAVA) backend and React.js (Vite) frontend, following a clean MVC architecture, implementing JWT-based authentication, role-based access, and RESTful APIs.. Utilized PostgreSQL with JPA for data management and REST APIs for frontend-backend integration.
- **NorthStarLight** 
Tecch stack: [Node.js, Express.js, PostgreSQL, JWT, REST API, Drizzle ORM, React.js(Vite), REST APIs, Docker Compose, etc.]
◦ A modular, microservices-based e-commerce platform for shoes, featuring services for authentication, cart, products, orders, users, and an API gateway. Built with Node.js and PostgreSQL, each service is independently deployable, supports RESTful APIs, and integrates with a unified frontend. Supports Dockerized deployment, JWT auth, centralized logging, and scalable service orchestration.
- **Student Surface — UIU Student Support Platform** 
Tech stack: [HTML, CSS, PHP, SQL Database, Javascript etc.]
◦ A productivity platform tailored for UIU students, offering access to tutorial resources, problem-solving mentors, a student community, academic achievements, job opportunities, and personal portfolios — all in one centralized portal.

PUBLICATIONS

C=CONFERENCE, T=THESIS

[C.1] **ElectroSortNet: A Novel CNN Approach for E-Waste Classification and IoT-Driven Separation System.** In 2024 3rd International Conference on Advancement in Electrical and Electronic Engineering (ICAEEE). Nov 2023 - Feb 2024

[T.1] **An Innovative Online Judge for UIU's Competitive Programming.** Manuscript presented in Final Year Defense Project. March 2024 - Oct 2024

RESEARCH PROJECTS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION, T=THESIS

[S.1] **Quantum Assisted Deep Learning Addressing the Generalization and Adaptation Challenges.** In Institute for Advanced Research (IAR). March 2025 - April 2025

[C.2] **Bagging-Based Ensemble Learning Framework for Multiclass Pox Skin Lesion Detection Using ML and CNN Pretrained Models.** Accepted in ICCIT 2024. July 2024 - Oct 2024

[S.2] **"Can I enjoy my hobbies like before?" A Look into Randomized To-Do App for Improving Hobby Engagement and Well-being .** In CHI LBW, 2025. Dec 2024 - Jan 2025

[C.3] **Advanced Predictive Analytics for Healthcare: Enhancing Patient Outcomes Through EHR-Based Modeling .** In-Progress.

SKILLS

- **Programming Languages:** C/C++, Java, Python, HTML, JS, CSS, PHP, SQL
- **Web Technologies:** React, Node.js, Spring Boot, MySQL, RestAPI, PostgreSQL
- **Data Science & Machine Learning:** PyTorch, Tensorflow, Scikit-Learn, PennyLane, Numpy
- **DevOps & Version Control:** Git, GitHub
- **Other Tools & Technologies:** Google Workplace, VS Code, IntelliJ, Google Colab, Kaggle, etc.
- **Research Skills:** Content Writing, Paper Skimming, Literature Searching, Overleaf Formatting, Survey & Interview Analysis (Thematic Analysis), etc.
- **Language:** English, Bangla, Urdu

HONORS AND AWARDS

- **Smart Prison: 1st Runner-up** UIIU CSE Project Show - Nov 2023
Category: Electronics Lab Project
- **PrintKoro: 2nd Runner-up** UIIU CSE Project Show - July 2023
System Analysis and Design Lab Project

VOLUNTEER EXPERIENCE

- **Volunteer** Dec 2021
Next Gen Leaders Job Readiness Summit 2021 Next Gen Leaders Job Readiness, UIU[🌐]
 - Supported the logistics and management of the National Job Fair, facilitating smooth coordination between companies, candidates, and organizers.
 - Strengthened leadership, teamwork, and professional communication skills in a dynamic environment.
- **Head Executive** Sep 2021 - April 2022
Entrepreneur Development Forum United International University[🌐]
 - Assisted in organizing entrepreneurship development events, workshops, and networking sessions for students.
 - Developed strong organizational, communication, and team collaboration skills through hands-on event management and coordination activities.

CERTIFICATIONS-COURSES

- **BOHUBRIHI Full Stack Web Development(MERN)** 2024
- **COURSERA Google Cloud Services and Spring Boot** 2025

REFERENCES

Available on Request