DIGANTA BARUA

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Career Objective

Detail-driven and innovative Computer Science student with strong knowledge in data structures, algorithms, and system design. Experienced in developing projects using C++, Java, and OpenGL. Looking forward to contributing as a Junior Software Engineer where I can utilize my technical skills while continuously learning emerging technologies.

Technical Skills

Languages: Java, C++, C#, SQL , Python
Frameworks/Tools: .NET, WinForms, OpenGL
Web: HTML, CSS
Database: MySQL, SQL Server
Others: Visual Studio, VS Code

Soft Skill

- Strong problem-solving and analytical thinking
- Team collaboration & communication
- Adaptability and continuous learning
- Time management and multitasking
- Creative approach to system design

Projects

AIUB Course Planner   Nov 2023

- Developed a course planning system to help students at AIUB efficiently organize and select courses.
- A secure Java Swing course management app with modular OOP design, file-based storage, and admin controls.

E-Shop Management System   Dec 2024

- Developed a role-based system with Admin, Buyer, Seller, and Guest User modules.
- Implemented product management, order processing, and filtering features.
- Technologies: C++ / MySQL

Roadside View Animation (Computer Graphics)   June 2025

- Created interactive roadside scenes (hill) with animations (rain, thunder, day-night cycle).
- Tools: OpenGL, GLUT, Code:Blocks

Experience
Academic   Jan 2023 - Present
- Actively managed both technical development and team leadership, bridging the gap between coding, documentation, and coordination.
- Took initiative in leading research-based projects, delivering engaging poster presentations and guiding team efforts from ideation to final showcase.
- Developed and deployed AIUB Course Planner, an academic tool designed to streamline course selection and prerequisite validation for students.
- Created an E-Shop Management System with role-based user access (Admin, Buyer, Seller, Guest) and product management features.
- Designed and implemented a Computer Graphics Roadside View Animation with interactive day-night cycles, rain effects, and animated transitions using OpenGL/GLUT.

Achievements
Best Poster Award – Physics Poster Contest at AIUB for "Nanotechnology: Unlocking the Potential of the Microscopic World."   April 2024

Research & Presentations
Nanotechnology Poster Presentation   April 2024
"Nanotechnology: Unlocking the Potential of the Microscopic World" – Presented at AIUB
- Awarded **Best Poster** in Physics Poster Contest
- Explored applications in **medicine**, **electronics**, **energy**, and **materials** with a collaborative team

Research Project – Why Students Choose Computer Science   May 2025
- Designed and conducted a survey at AIUB on factors behind students' choice of CS
- Analyzed responses by initial interest vs. career goals, revealing key educational trends

CERTIFICATES
Cisco Networking Fundamentals | Cisco Networking Academy   April 2023
- Certified in routing, switching, and network security.

Certificate of Achievement in Science Poster Presentation   September 2023
- Department of Physics, American International University-Bangladesh (AIUB)

Education
American International University Bangladesh
BSc in Computer Science and Engineering (CSE)   2023 – 2027(Expected)
- CGPA: 3.09

Habibullah Bahar University College
Higher Secondary School Certificate   2021
- Graduated with a 4.58 GPA

Banani Bidyaniketan School & College
Secondary School Certificate   2019
- Graduated with a 4.06 GPA