

Md. Naimul Islam

Computer Science & Engineering Undergraduate
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Career Objective

I am a passionate and driven Computer Science and Engineering student at AIUB with a strong interest in developing innovative IT and engineering solutions. My enthusiasm lies in embedded systems, software development, and AI-driven research. I continuously strive to enhance both my technical expertise and collaborative abilities to create impactful technologies that address real-world challenges.

Education

B.Sc. in Computer Science and Engineering

American International University-Bangladesh (AIUB)

Expected: 2026

Student ID: 22-47899-2

CGPA: 3.23

Higher Secondary Certificate (HSC)

GPA: 5.00

Secondary School Certificate (SSC)

GPA: 5.00

Junior School Certificate (JSC)

GPA: 5.00 – Awarded Scholarship

Courses Completed

American International University-Bangladesh (AIUB)

- Differential Calculus & Coordinate Geometry
- Physics 1
- Physics 1 Lab
- English Reading Skills & Public Speaking
- Introduction to Programming
- Introduction to Programming Lab
- Introduction to Computer Studies
- Discrete Mathematics
- Integral Calculus & ODE
- Object Oriented Programming 1
- Physics 2
- Physics 2 Lab
- English Writing Skills & Communication
- Introduction to Electrical Circuits
- Electrical Circuits Lab
- Complex Variable, Laplace & Z-Transformation
- Introduction to Database
- Data Structure
- Data Structure Lab
- Bangladesh Studies
- Matrices, Vectors, Fourier Analysis
- Object Oriented Analysis and Design
- Computer Aided Design & Drafting
- Chemistry
- Electronic Devices
- Electronic Devices Lab
- Principles of Accounting
- Algorithms
- Computational Statistics and Probability

- Theory of Computation
- Principles of Economics
- Business Communication
- Numerical Methods
- Digital Logic and Circuits
- Digital Logic and Circuits Lab
- Microprocessor and Embedded System
- Compiler Design
- Object Oriented Programming 2
- Data Communication
- Software Engineering
- Operating System
- Computer Graphics
- AI and Expert Systems
- Computer Networks
- Research Methodology
- Machine Learning
- Web Technologies
- Engineering Ethics

Kye - Projects

A Data-Driven Dual-Axis Solar Tracking System — Team Nexus

Designed a servo-controlled solar panel system using Arduino UNO and ESP8266. Used sun movement data to predict angles for optimal positioning.

Obstacle Odyssey – 2D Platformer Game

Built using C++ and OpenGL (GLUT) featuring 3 levels with movement, traps, and physics-based mechanics.

Smart Road Management System

Python-based system to monitor road hazards and traffic flow, enhancing safety and road efficiency.

Pothole Detection using Deep Learning

Developed CNN and MobileNetV2 models; analyzed performance using accuracy, precision, recall, and F1 score.

Bank Management System (Java / PHP)

Java version: CLI-based with OOP.

PHP version: Multi-role login (Admin, Customer, Employee) with MySQL database.

Smart Home Automation System

Built using NodeMCU and IoT sensors with mobile control and real-time monitoring using Fritzing and Tinkercad.

Pastry Shop Management System

Built using DBMS concepts (SQL, ER & Schema Diagrams, 3NF) for efficient inventory, order, and customer management.

Electricity Bill Management System

Java-based system to automate electricity billing by calculating usage and charges. Replaces manual processes with a secure, scalable, and user-friendly solution.

Blog App

Developed a full-stack blog platform with user authentication, post categorization, and a clean UI for seamless content management.

Portfolio Website

Created a personal portfolio site to showcase skills, projects, and achievements with a professional, lasting design.

Skills

Programming Languages:

C, C++, Java, Python, C#, PHP, JavaScript, HTML, CSS, SQL

Soft Skills:

Teamwork, Problem-solving, Communication, Research Writing, Time Management.

Other Skills:

Agile methodologies, version control, time complexity analysis, problem-solving, data structures, algorithm design, team collaboration (Slack, Microsoft Teams).

Tools/Frameworks:

Arduino, NodeMCU, Django (Basic), .NET, Git, GitHub, Bootstrap, OpenGL, VS Code, MySQL, Oracle, Matlab, Colab, Latex, Codeblock, Jupyter, Visual Studio.

AI/ML: Supervised and unsupervised learning, regression, classification, TensorFlow, Scikit-learn

Operating Systems: Linux/Unix, Windows.

UI/UX Design: User interface and experience design, prototyping.

Domains:

Embedded Systems, Web Development (Basic), IoT, AI/ML, Game Development.

Graphics Design: C++ with GLUT, Adobe Photoshop, Illustrator.

Work Experience

Cloud App Optimization, API Integration, Agile Development, Sprint Planning & Code Review, Feature Deployment.

Research Interests

AI in Retail Optimization, Deep Learning for Image Classification, IoT & Embedded Systems, Real-Time Automation.

Certifications & Achievements

- Govt. Certified Python Django Course – 2024
- Arduino & Robotics Workshop – AIUB Tech Fest
- Problem Solving Contest Participant – AIUB CSE Fest
- Top Performer in Coding Platforms – LeetCode, Codeforces, HackerRank
- Hackathon Contributor – Developed Smart City Solution (AIUB)
- Scholarship Holder – JSC (Perfect GPA 5.00)

Team Collaboration

Team Nexus — Developer & Hardware Integrator

Worked with Saikat, Bushra, Jannatun, and Tanvir on solar tracking, home automation, and embedded hardware projects.

Languages

Bengali – Native
English – Fluent

Additional Interests

UI/UX Design, C++ Graphics with OpenGL, Real-Time Apps.

References

Available upon request.