

# Dipon Biswas — B.Sc. in Computer Science and Engineering

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## Education

### American International University - Bangladesh (AIUB)

B.Sc. in Computer Science and Engineering, CGPA: 3.15/4.00

2025

### Pangsha Govt. College, Pangsha

Higher Secondary School Certificate, GPA: 4.58/5.00

2020

## Technical Skills

**Languages:** C++, Python, C#, JavaScript, TypeScript

**Frameworks:** ASP.NET, Node.js (NestJS), React.js (Next.js)

**Databases:** MySQL, PostgreSQL, MSSQL, Oracle 10g

**Tools:** Git, GitHub, Postman, XAMPP

**Other:** REST API, Problem Solving, Data Structures, Algorithms, DSA

## Problem Solving

**Profiles:** Codeforces, LeetCode

- **Codeforces:** 500+ problems solved, focusing on algorithmic skills and contest performance.
- **LeetCode:** Regularly solving problems of varying difficulty with strong emphasis on DSA.
- **DSA Proficiency:** Mastery over arrays, linked lists, trees, graphs, hashing, dynamic programming, and advanced algorithms.

## Relevant Coursework

- Data Structures, Algorithms, Operating Systems, Artificial Intelligence, Machine Learning, Object-Oriented Programming (OOP), Computer Networks, Cloud Computing, Software Engineering, Database Management Systems (DBMS)

## Projects

### Smart Bus Portal - Frontend/Backend

NextJS, Tailwind, NestJS, REST API, TypeORM, PostgreSQL

**GitHub**

2 months

- Built a smart bus management platform with driver, passenger, and admin roles.
- Implemented a secure RESTful API with full CRUD operations, JWT authentication, and bcrypt password hashing.
- Designed a scalable frontend with NextJS and backend with NestJS.

### Restaurant Management System

HTML, CSS, JavaScript, PHP, MySQL

**GitHub**

2 months

- Built a web-based food ordering system using raw HTML, CSS, JavaScript, and PHP.
- Implemented a session-based Add to Cart feature passing items to `order.php`.
- Integrated PHP and MySQL to insert confirmed orders into the `orders` table.
- Added user login and redirection to `index.php`.

### CareNest - Babysitting Services Platform

C#, Windows Forms, MSSQL

**GitHub**

3 months

- Developed a C# Windows Forms application for managing babysitting bookings, admin feedback, and user authentication.
- Designed the system architecture using ER diagrams, Use Case diagrams, and Class diagrams.
- Integrated browser navigation and automated email reporting features.

## Banking Management System

*SQL, Oracle 10g*

**GitHub**

*3 months*

- Designed relational databases for banks, branches, employees, customers, loans, and transactions.
- Implemented SQL procedures to manage accounts and customer data.

## Achievements & Certifications

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*Cisco Certified — IT Essentials*

*June 12, 2022*

Completed foundational training in computer hardware, software, networking, and troubleshooting under the Cisco Networking Academy.