






# MD. OMAR FARUK SAKIB

✉ sakibkst38@gmail.com

**Contacts:**  LinkedIn |  GitHub |  HackerRank |  +880 1732546538 |  +880 1732546538 (WhatsApp)

## Education

### American International University-Bangladesh

BSc in Computer Science and Engineering (Major in Software Engineering)

June 2021 – 2025

CGPA:3.91

### Kushtia Govt. College

Higher Secondary Certificate

July 2017 – June 2019

GPA:5.00

### Kushtia Zilla School

Secondary School Certificate

July 2009 – June 2017

GPA:5.00

## Academic Achievements

Recipient of the **Dean's Award** for academic excellence **four times** during undergraduate studies.

Awarded a **60% merit-based scholarship** throughout the B.Sc. program for outstanding academic performance.

Candidate for the prestigious **Magna Cum Laude (Silver Medal)** award for academic excellence.

## Relevant Courseworks

- Linear Algebra and Calculus
- Database Management Systems
- Advanced Programming in Web Tech
- Data Structures and Algorithms
- Advanced Programming With .Net
- Software Quality and Testing
- Operating Systems
- Programming in Python
- Introduction to Data Science
- Computer Networks
- Artificial Intelligence

## Projects

### Selenium-Based Testing for Job Portal

March 2025 – May 2025

Selenium IDE, HTML, JavaScript, Team Role: Project Manager

- Collaborated on an academic project focused on functional and non-functional testing of a job portal platform.
- Designed and executed automated test cases using Selenium IDE covering login, registration, job search, job post, credit purchase, and candidate matching.
- Conducted system, integration, and acceptance testing for multi-role access (Admin, Employer, Job Seeker).
- Documented test procedures, results, and reports; participated in risk analysis and closure review meetings.

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### Manual Testing of Facebook Login Page

April 2025 – May 2025

UI/UX Testing, Functional Validation, Security Testing — Individual Project

- Designed and executed 60+ manual test cases for UI, functional, and security testing of Facebook's login page.
- Validated critical functionalities: login flow, form validations, field masking, input limits, and navigation behaviors.
- Performed cross-browser and cross-device testing to ensure consistent behavior across Chrome, Firefox, Safari, and Edge.
- Executed security testing to detect SQL Injection and XSS vulnerabilities with proper error handling and input sanitization.
- Verified accessibility standards including screen reader support, keyboard navigation, and WCAG-compliant contrast.
- Documented test case IDs, steps, expected outcomes, and results in a structured format with 100% pass status.

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### Food Delivery Management Systems Using Nestjs

September 2024 – November 2024

Nestjs,Postgres, Typescript,Nextjs, JavaScript

- Designed and implemented a scalable food delivery management system using NestJS, adhering to best practices for modular.
- Developed RESTful APIs using NestJS and integrated them with a PostgreSQL database for efficient data storage and retrieval.
- Collaborated with frontend developers to integrate APIs with the NextJS-based frontend, ensuring real-time updates.

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## Thought Sprint – Python-Based Word Memorization Game

October 2024 – December 2024

Python, File Handling, Modular Design

- Developed a terminal-based word game with difficulty levels and timed recall gameplay across categories like Books, Movies, and Famous People.
- Implemented dual roles (Admin/User) with features including registration, login, feedback, score tracking, and user management.
- Used file handling (e.g., `users.txt`, `leaderboard.txt`, `feedback.txt`) to persist data across sessions without a database.
- Structured the code with modular functions for maintainable game logic, validation, and input handling.
- Proposed future upgrades: password encryption, database (SQLite) integration, and a GUI via Tkinter for improved UX.

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## Travel Agency Management Application using Java

March 2023 – May 2023

Java (Core), File I/O, OOP

- Developed a console-based travel agency system using core Java and text-based interaction.
- Implemented features like customer registration and package booking using Java classes and methods.
- Utilized File I/O to store and retrieve data (e.g., bookings, customer info) in `.txt` files.
- Created menu-driven interface using loops, conditionals and method calls to manage application flow.

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## Complaints Management System Using php

April 2024 – June 2024

php,MySQL, JavaScript,HTML, CSS

- Designed and implemented backend functionality using PHP to handle user complaints, registrations, and other dynamic features of the platform.
- Utilized AJAX and JSON for asynchronous page updates, enabling real-time interactions without the need for page reloads.

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## Food Delivery Management Systems Using .Net

January 2024 – March 2024

.Net,MySQL,MVC,HTML, CSS

- Designed a 3-layer architecture (Presentation, Business, and Data Access layers) to ensure scalability, and maintainability.
- Applied Data Transfer Objects (DTOs) to facilitate secure and optimized data transfer between layers.

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## Skills

**Programming Languages:** C++, Python,Latex, HTML/CSS, JavaScript, SQL, PHP, TypeScript, R, Java, C#

**Frameworks:** Nodejs, Nestjs, Bootstrap, Tailwind

**Tools:** VS Code, Git,Jira, Google Colab, Visual Studio, PyCharm, R Studio

**Languages:** Bengali (Native), English (Fluent)

**Soft Skills:** Communication, Teamwork, Problem-solving, Adaptability, Leadership

## References

**Dr. Khandaker Tabin Hasan**

Professor, Head [Graduate Program]

Department of Computer Science

American International University-Bangladesh

*Email:* tabin@aiub.edu

**Dr. Abdus Salam**

Associate Professor, Faculty

Department of Computer Science

American International University-Bangladesh

*Email:* abdu.salam@aiub.edu