






# MD. OMAR FARUK SAKIB

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## 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

## Work Experience

### Luminar Technology

2025 – Present

Jr. SQA Engineer(Remote)

- Collaborated with the development team to design, execute, and maintain test cases for web-based automotive solutions.
- Performed functional, regression, and performance testing to ensure high-quality product releases.
- Utilized Apache JMeter for load testing and Postman for API testing, ensuring system stability and performance.
- Identified, documented, and tracked software defects using JIRA, following Agile/Scrum methodologies.
- Prepared detailed test documentation including test plans, test reports, and bug tracking logs.

## Projects

### Data Science Projects

#### Student Depression Dataset Analysis Using Python

Python, Numpy, Pandas, Matplotlib

- Preprocessed dataset by handling missing values with mean/mode imputation and removed duplicate records to improve dataset quality.
- Performed exploratory data analysis (EDA) using descriptive statistics and visualizations such as histograms, bar charts, and correlation heatmaps.
- Applied feature scaling (standardization/normalization) and encoded categorical variables to prepare data for machine learning models.
- Implemented classification models and evaluated their performance using confusion matrix, precision, recall, and F1-score.
- Suggested kernel and hyperparameter tuning strategies to optimize classifier performance and reduce bias.
- Prepared a structured analysis report summarizing insights, data trends, and recommendations for further research.

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## Caesarian Section Prediction Data Analysis Using R

R

- Cleaned and validated medical dataset by handling missing, invalid, and duplicate data entries to ensure accuracy.
- Converted and standardized data types, identified and removed statistical outliers, and applied dataset balancing for unbiased modeling.
- Performed preprocessing including normalization, categorical transformation, and feature encoding for effective model training.
- Conducted statistical analysis (mean, median, mode, standard deviation) and visualized relationships using boxplots, bar charts, and scatter plots.
- Applied hypothesis testing and correlation analysis to explore associations between features and caesarian outcomes.
- Documented data processing pipeline, analytical insights, and recommendations for medical decision support systems.

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## Software Quality Assurance Projects

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### Performance Testing Using JMeter – AutoWorx

June 2025 – August 2025

Apache JMeter, CSV, Performance Metrics, Team Role: Jr SQA Engineer

- Conducted performance and load testing for AutoWorx web application to evaluate scalability and stability under high traffic.
- Designed and configured JMeter test plans to simulate multiple concurrent users performing key business operations.
- Collected and analyzed performance metrics including response time, throughput, error rate, and resource utilization.
- Identified system bottlenecks, collaborated with the development team to implement optimizations, and re-tested to validate improvements.
- Documented testing process, results, and recommendations for system performance enhancement.

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### 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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## Software Development Projects

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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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## Skills

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**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

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