

# MD. SHADMAN SHAKIB ALAM

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## EDUCATION

|   |                               |
|---|-------------------------------|
| American International University – Bangladesh                        | Jan 2022 – Sep 2025(Expected) |
| Bachelor of Science in Computer Science and Engineering – CGPA – 3.74 | Dhaka, BD                     |
| Holy Land College   | Jan 2018 – Jan 2020           |
| Higher Secondary Certificate (HSC) – GPA – 5.00                       | Dinajpur, BD                  |

## COURSEWORK / SKILLS

Data Structure & Algorithms | Computer Networks | Operating System | DBMS | OOP Concepts | Software Requirement Engineering | Software Development and Project Management | Machine Learning | Software Quality Testing | Agile Methodology | RESTful APIs | Web technology | .NET | Computer graphics with C++

## PROJECTS

To-go | Application API | NestJS, TypeScript, PostgreSQL | JWT | RESTful API Jan 2025

- Developed a secure **To-Go API** with NestJS and TypeScript, featuring JWT-based authentication and role-based authorization.
- Built CRUD endpoints with validation, error handling, and PostgreSQL integration via TypeORM.
- Applied NestJS Guards, Interceptors, and Middleware for security and optimized request handling.

FundMe | java | oop concept Dec 2024

- Developed a Java application applying core OOP principles with multiple user types.
- Implemented features for data display, insertion, deletion, and search operations.
- Integrated packages, exception handling, and file I/O for persistence and robust error management.

Guava Disease Detection | Python | Deep Learning | CNN | MLP | Ensemble Models Apr 2025 – May 2025

- Conducted a comparative study on deep learning models for guava disease detection using real-world datasets.
- Implemented and evaluated Convolutional Neural Networks (CNN), Multilayer Perceptron (MLP), and ensemble techniques to improve classification accuracy.
- Analyzed model performance metrics to identify the most effective approach for plant disease detection applications.

Emergency service web app | HTML | CSS (Tailwind) | JavaScript Oct 2025

- Developed a responsive web application providing quick access to essential emergency hotlines (police, fire service, ambulance, etc.).
- Implemented interactive UI components using JavaScript for smooth user experience and easy navigation.
- Utilized Tailwind CSS for modern, mobile-first design and optimized layout.

## TECHNICAL / SOFT SKILLS

**Languages / Frameworks :** C/C++, HTML, CSS(Tailwind), JavaScript, Node.js, Nest.js, Next.js, SQL, PSQL, C#, .Net, Python, FastAPI

**Tools / Technologies:** VS Code, Git, GitHub, PostgreSQL, Linux, Google Colab, Jira, Monday, Figma, illustrator

**Soft Skills:** Leadership, Communication, Proactive, Problem solving, Critical thinking, Hard working, Multitasker, Proactive

## ADDITIONAL ACTIVITIES & EXPERIENCES

Visual Designer (Lead-Volunteer) Jan 2024 – Present

IEEE AIUB Student Branch

**Solved** 100+ challenging problems on various online judges primarily on Leetcode, Codeforces .

## AWARDS & CERTIFICATES

Recipient of the **Academic Scholarship** throughout university and recognized on the **Dean's List**.

**Cisco IT Essentials Certification** (**Cisco Networking Academy**).