

Md Farhan Islam Shuvro

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EDUCATION

University of Dhaka

B.S. in Software Engineering

Dhaka, Bangladesh

Expected Graduation, Dec 2025

- o GPA: 3.77/4.00
- o Coursework: Data Structures & Algorithms, Computer Organization & Programming, Object-Oriented Programming, Statistics & Applications, Operating System and System Programming, Information Security, Computer Networking, Database Management System, Web Technology, Software Requirement Specification and Analysis, Design Patterns, Artificial Intelligence, Distributed Systems

EXPERIENCE

Xpeedlab

Software Engineer Trainee

Dhaka, Bangladesh

Jan 2024 – April 2024

- Developed proficiency in the MERN stack (MongoDB, Express.js, React.js, Node.js) for full-stack web development.
- Built and integrated RESTful APIs to enable seamless communication between front-end and back-end systems.
- Implemented small-scale projects, demonstrating hands-on experience in building dynamic, responsive web applications using the MERN stack.

PROJECTS

SQL Injection Vulnerability Detection Tool - [Github Repo](#)

Software Project Lab-1

Dhaka, Bangladesh

Jan 2023 – July 2023

- Built a C++ program to detect SQL injection vulnerabilities in user inputs, helping to secure databases by preventing potential attacks.
- Used parsing techniques to identify risky SQL queries, reducing the chance of malicious code being executed.
- Tested the tool against different SQL injection scenarios to ensure it could handle a variety of attack methods and protect sensitive data.

RecruitEase - [Github Repo](#)

Software Project Lab-2

Dhaka, Bangladesh

Jan 2024 – Jul 2024

- Utilized the MERN stack to build a platform that helps users find jobs and assists recruiters in selecting potential candidates efficiently.
- Implemented personalized job recommendation features, making it easier for users to discover relevant opportunities.
- Developed tools for recruiters to filter and assess candidates based on custom criteria, streamlining the hiring process.

_PACEplorer - [Demo](#) | [Github Repo](#)

NASA Space Apps Challenge 2024 [Participation Certificate](#)

Dhaka, Bangladesh

Oct 2024

- Developed a web application to help students and educators visualize NASA's PACE data through interactive lessons, quizzes, and games designed for different grade levels.
- Integrated real-world ocean science and atmospheric data from NASA's PACE mission, allowing students to engage with educational materials tailored to their level.
- Included a diverse set of resources, such as lesson plans and quizzes, to make learning more engaging and accessible.

Achievements

AI for Change Hackathon - Winner [Details](#) | [Certificate](#)

Dhaka, Bangladesh

Project: CoolCity - [Github Repo](#)

Jun 2024

- Developed an AI-powered solution to mitigate rising urban temperatures and enhance urban livability.
- Created an interactive map interface using Maptiler API and LeafletAPI for displaying environmental data.
- Integrated multiple data sources including OpenWeatherAPI, AgroMonitoringAPI, and GoogleAirQualityAPI.

- Implemented an AI system for environmental analysis and recommendation of cooling strategies.
- Developed a chatbot using the Gemini API to provide accurate answers to user queries.
- Overcame challenges in data integration, real-time processing, and creating an intuitive user interface.

SKILLS

Programming: C, C++, JavaScript, Typescript, Java, Python, HTML/CSS, SQL, Node.js, React.js, Express.js, Tailwind CSS,

Tools: VS Code, Insomnia REST, Eclipse, Jupyter Notebooks, Git