

# Md. Dipu

## Full-Stack Software Engineer

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[GitHub](#) | [LinkedIn](#)

### About me

I am a passionate and dedicated Computer Science and Engineering student at Manarat International University (MIU), specializing in full-stack development using the MERN stack. With hands-on experience in building, maintaining, and scaling production-level applications, I focus on writing clean, efficient, and secure code. My interests extend into Artificial Intelligence and system architecture, where I constantly explore ways to integrate intelligent automation into web systems. I am currently focused on improving problem-solving skills with DSA.

### Skills

**Languages** JavaScript, TypeScript, Python, Java, C/C++  
**Frontend** React, Next.js, Redux, Tailwind CSS, Material UI, Bootstrap  
**Backend** Node.js, Express, Flask, REST APIs  
**Databases** MongoDB, MySQL  
**DevOps** Linux, Docker (basic), Nginx (basic), Coolify  
**Tools/Software** Git, GitHub, Firebase, Supabase, Postman, Figma, JWT, Mongoose, etc  
**Concepts** OOP, Structured Programming, API Design, MVC Microservices, Client-Server Architecture, Design Patterns, Agile Development, etc  
**AI & Data Skills** Python (Pandas, NumPy, Scikit-learn), OpenAI APIs, Prompt Engineering, AI Integration in Web Apps  
**Soft Skills** Team Collaboration, Mentoring, Research, Documentation

### Experience

#### Web Developer Intern

*Apr 2025 - Jun 2025*

#### [GradMate.ai](#)

- Building a Flask-based web app for an AI-driven graduate application platform.
- Using Supabase for database management and user authentication.
- Collaborating with the team to add features and enhance user experience.

### Projects

#### Capstone: Full-Stack E-Commerce Platform

*Aug 2025 - Oct 2025*

**Technologies:** React, Express, MongoDB, Node.js, Stripe, TailwindCSS, Zustand

- Built a production-ready platform with auth, payments, and state management.
- Integrated Stripe for secure transactions and Zustand for state management.
- Applied component-based architecture and RESTful API design principles.

[Code](#) | [Book](#) | [Demo](#)

### Wagon: Apartment-selling website

Jan 2023 - Feb 2023

Developed a MERN apartment booking platform with Firebase auth and MongoDB integration.

[Code](#) | [Demo](#)

### Birdseye: Travel and Tourism Platform

Nov 2022 - Jan 2023

Full-stack travel planner with role-based access, booking, and management features.

[Code](#) | [Demo](#)

## Education

### Manarat International University (MIU)

CGPA: 3.50/4

Bachelor's Degree in Computer Science and Engineering

Jan 2022 - Present

**Thesis:** Malicious UAV Detection: A Hybrid Approach Using RCNN and Wireless Technology

**Relevant Coursework:** Web and Internet Programming, Database Systems, Data Structures, Algorithms, Software Engineering, Artificial Intelligence, Machine Learning Basics, etc.

## Volunteering & Leadership

- **President**, MIU Programming Club — Jul 2025 – Dec 2025  
[CF Group](#) | [LinkedIn](#) | [Facebook](#)
- **Organizing Secretary**, MIU CSE Club — Feb 2024 – Jan 2025
- **Class Representative (CR)**, MIU CSE Batch 58 — Aug 2023 – Dec 2025

## Achievements

- **Honorable Mention: The 2024 ICPC Asia Dhaka Regional Contest**
- Solved over *300+* problems with *1600+* Contest rating on [Leetcode](#).
- Participated in and organized multiple coding contests under Manarat International University, MIU CSE Club, and MIU Programming Club since 2022.

## Reference

Md. Zahurul Haque

Assistant Professor, Department of CSE, Manarat International University

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