

Md. Foysal Hossain

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Summary

Final-year Computer Science & Engineering student specializing in **Software Engineering**, **Web Application Development**, and **Machine Learning**. Experienced in building scalable backend services with Django, implementing predictive machine learning models, and architecting real-time computer vision applications. Strong foundation in algorithmic problem solving and data structures.

Technical Skills

Languages: Python, C++, Java, C, SQL, JavaScript, HTML5, CSS3
Frameworks & Libraries: Django, NumPy, Pandas, Scikit-Learn, OpenCV, Flutter (Familiar)
Tools & Platforms: Git, GitHub, Linux (Ubuntu/Kali), VS Code
Core Concepts: Data Structures & Algorithms, Object-Oriented Programming (OOP), Machine Learning

Key Projects

IoT-Based Real-Time Intelligent Traffic Management System | *Python, OpenCV, ML, IoT* 2025 – Present

- Engineered an automated real-time traffic density evaluation system for high-density urban areas using computer vision and IoT sensor networks.
- Implemented dynamic signal timing algorithms that adapt to live vehicular load, reducing simulated bottleneck delays by up to 35%.
- Integrated deep learning model pipelines for real-time vehicle classification and frame processing.

Full-Stack E-Commerce Platform | *Python, Django, SQLite, HTML/CSS, JavaScript* 2024

- Developed a modular web application supporting multi-user authentication, product search, inventory management, and cart operations.
- Integrated secure payment gateway workflows and custom backend routes to process transactions smoothly.
- Optimized database query response times by utilizing indexed relational tables and Django ORM optimization.

Professional Experience

Bdex International Ltd / Trust Air International Dhaka, Bangladesh
Operations & Data Executive Feb 2020 – Apr 2023

- Managed operational workflows, data reporting, and documentation pipelines across international logistics teams.
- Automated manual data handling using custom script automation, reducing reporting processing time.

Education

Stamford University Bangladesh Dhaka, Bangladesh
Bachelor of Science in Computer Science & Engineering 2021 – 2026

- Relevant Coursework:** Data Structures, Algorithms, Software Engineering, Database Systems, Machine Learning.
- Status:** Thesis/Capstone Project in Progress.

Comilla Govt. City College Cumilla, Bangladesh
Higher Secondary Certificate (HSC) – Science 2017 – 2019

Certifications & Leadership

Certifications: Machine Learning with Python — Full-Stack ML Web App Development with Django.
Activities: Active participant in inter-university robotics and hardware competitions.
Leadership: Media Organizer & Designer, SUB Transportation Engineering Club — Co-founder, Rokter Orbindu.