

Abdullah Al Mamun

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SUMMARY

Dedicated Web Developer with expertise in front-end (Bootstrap, Tailwind CSS) and back-end (Django). Comfortable with containerization (Docker) and exploring AI/ML integrations to enhance web solutions and deployment efficiency.

SKILLS

Languages: Javascript, Python, Java, C++

Frameworks: Django, React, Bootstrap, Tailwind CSS, WordPress

Databases: MySQL, PostgreSQL, SQLite

Tools: Docker, Git, GitHub, Figma

PROJECTS

Dengue Management System

Github

- Developed a web-based platform for dengue patients to log symptoms, monitor health conditions, and book online doctor appointments, providing timely alerts and improving healthcare accessibility during outbreaks.

- Technologies:** Django, Bootstrap, HTML, CSS

Invasive Species Detection System

Github

- Built a real-time detection system using YOLOv5-nano on Raspberry Pi for low-cost, on-device inference, enabling environmental monitoring and biodiversity protection through custom model training and real-time detection.

- Technologies:** Raspberry Pi, YOLOv5-nano, Python

PCA Face Recognition System

Github

- Implemented a PCA-based face recognition system with preprocessing, feature extraction, and identity recognition, achieving efficient computation suitable for real-time recognition on limited resources.

- Technologies:** Python, OpenCV, scikit-learn

DOHS Management System

Github

- Developed a JavaFX desktop application for the Defense Officers Housing Scheme with modules for resident management, property tracking, utility billing, and complaint handling, improving administrative efficiency.

- Technologies:** Java (JavaFX)

KEY ACHIEVEMENTS

- Regional Finalist, BD Apps National Hackathon 2022 — *DonorHub* blood donation platform.
- Runners-up, Intra IUB Techfest 2023 — DOHS Management System.

EDUCATION

B.Sc in Computer Science 2021–2025
Independent University Bangladesh **CGPA: 3.60/4**

Higher Secondary Certificate (HSC) 2018–2020
Dhaka Imperial College **GPA: 5.00/5**

COURSES & CERTIFICATES

- KodeKloud Docker Training for Beginners
- CCNA: Introduction to Networks
- Full Stack Web Development (Interactive Cares)
- Django Backend Development (Ostad)
- React Accelerator Course (LWS)

PUBLICATIONS

Real-Time Automated Tomato Leaf Disease Detection and Monitoring Using YOLOv5 and IoT Integration (Accepted for publication)

- IoT-enabled system on Raspberry Pi 4 with trained YOLOv5 for in-field tomato leaf disease detection.
- mAP@0.5 = 0.89; overall accuracy = 91.2% across nine disease classes.
- Efficient on Pi 4 with low CPU/RAM overhead; practical for resource-constrained setups.

WORKSHOPS & EVENTS

Droidcon Bangladesh – Volunteer Contribution IUB Campus, 2025

- Assisted session coordination, live demos, and panel discussions.

LANGUAGES

- Bangla
- English
- Hindi

INTERESTS

- Technology
- History
- Travel