

KHALID MUHAMMAD WAHID

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

Computer Science student skilled in **Python, Django, REST APIs, and automation**, with hands-on experience in **backend development, IoT data systems**, and solving **200+ DSA problems**; eager to contribute and grow as a **Software Engineer**.

Technical Skills:

- **Languages & Frameworks:** Python, JavaScript, C/C++, Django, Django REST Framework (DRF), FastAPI
- **Databases:** PostgreSQL, MySQL, SQLite
- **Frontend & Styling:** HTML, CSS, Tailwind CSS, Bootstrap
- **Tools & Platforms:** Git/GitHub, Linux, Docker, Celery, AWS(EC2, S3, Lambda)
- **Testing & Automation:** Selenium, Unit Testing, PyWhatKit, Scrapy
- **Concepts:** Data Structures & Algorithms, OOP, DBMS, REST APIs, WebSockets

EDUCATION

BSc in Computer Science and Engineering, Dhaka International University, Dhaka

Technical Projects

WhatsApp Bulk Automation | Django, Selenium, Celery, PostgreSQL | [GitHub](#)

- Designed and **deployed** a full-stack Django web application integrating **Selenium** for **automated** WhatsApp messaging, streamlining marketing campaigns.
- Designed a campaign scheduling system using **Celery**, enabling **asynchronous** message delivery and improved user experience.

IoT Air Quality Monitoring System | ESP32, MQTT, InfluxDB, Grafana, DRF | [GitHub](#)

- Built and deployed a **real-time IoT System** on **AWS EC2**, integrating **ESP32 sensors, MQTT, InfluxDB**, and **Grafana** for live environmental data visualisation.
- Implemented secure and automated data logging and visualisation workflows using **Python, Linux services**, and optimised **AWS network configurations** for high availability.
- Built a scalable **IoT data pipeline** for real-time air-quality monitoring.

CLO Assessment | [GitHub](#) | [Live](#)

- Built a web application to automate Course Learning Outcome (CLO) evaluation, reducing manual calculation time by 60%.
- Replaced traditional spreadsheets with a centralised system, improving accuracy and transparency in reporting.

Achievements & Coding Experience:

- Solved 200+ problems on [LeetCode](#) & [Codeforces](#) (Arrays, Trees, DP, Graphs Problem-Solving)

Soft Skills: Teamwork | Communication | Time Management | Adaptability |
