

Md. Waliul Islam Rayhan

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Skills

- **Programming Languages** Python, Java, JavaScript, TypeScript, PHP, HTML, CSS
- **Web & Mobile Development** Next.js, React.js, React Native (Expo), Flask, FastAPI, Android (Java, XML)
- **Databases & Cloud** MySQL, PostgreSQL, Prisma, Firebase, NoSQL, AWS, Azure, Hostinger VPS
- **AI & Machine Learning** TensorFlow, TensorFlow Lite, scikit-learn, Keras, OpenCV, NLTK, NLP, CNN
- **IoT & Hardware** IoT Sensors, RFID/NFC, Real-time Data Processing
- **Tools & DevOps** Docker, Git, GitHub, Linux, REST API, XAMPP
- **Other Skills** Problem Solving, Full-Stack Development, Project Management, Team Collaboration

Project Experience

HackToLive

Full-Stack Developer

Remote

Dec 2025 - Present

- Built full-stack cybersecurity platform from scratch using Next.js, Prisma, and Docker, deployed on Hostinger VPS with complete REST API architecture.
- Replaced WordPress site with modern platform featuring blog, cybersecurity academy, and service management.
- Delivered scalable solution enabling cybersecurity education and professional services for growing client base.

Go Bangladesh

Mobile App & POS Developer

iDEA Portfolio Startup

Jan 2025 - Dec 2025

- Developed React Native mobile app and POS application integrating REST APIs for RFID/NFC-based transit system.
- Built digital solution with tap-in/out, balance management, live tracking, and digital payments.
- Modernized public transportation for iDEA-funded startup, contributing to IoT smart city infrastructure.

Divine Beauty Lounge

Full-Stack Developer

Remote

Oct 2024 - Jan 2025

- Built inventory management system using Next.js and TypeScript to digitize manual business operations.
- Implemented stock tracking, stock-in/out workflows, product management, and role-based access control.
- Eliminated manual errors and improved operational efficiency for beauty parlour business management.

Education

Jagannath University

Bachelor of Science in Computer Science and Engineering; CGPA: 3.61/4.00

Dhaka, Bangladesh

2020 - 2025

Notable Courses: OOP, Data Structures, Algorithms, DBMS, Software Engineering, Operating Systems, Computer Networks, Artificial Intelligence, Cryptography & Information Security, Data Science, Machine Learning, Cloud Computing

GitHub Projects

CV Matcher - Smart Resume Screening Tool

[Live Demo](#)

- Built AI-powered screening platform using Next.js and FastAPI to process thousands of resumes, automatically ranking candidates to streamline HR recruitment workflows.
- Tech: Next.js, TypeScript, FastAPI, Python, scikit-learn, NLTK, TF-IDF, Docker

Traffic Signs Classification Using CNN

[Github-Repo](#)

- Developed CNN-based system classifying 43 traffic sign types in real-time across Flask web and Android apps, enabling autonomous vehicle-like detection capabilities.
- Tech: Python, TensorFlow, TensorFlow Lite, OpenCV, Flask, Android SDK

Smart Grid Management

[Github-Repo](#)

- Created IoT-enabled Android app analyzing sensor data to monitor energy distribution in real-time and predict blackouts, minimizing manual intervention through automated commands.
- Tech: Android (Java), Python, IoT Sensors, Machine Learning

Quillium - University Social Network

[Github-Repo](#)

- Built Android social network with Firebase authentication enabling students to connect through messaging, posts, and stories, enhancing campus community engagement.
- Tech: Android Studio, Firebase, Java, Glide, CircleImageView

e-Desk

[Github-Repo](#)

- Developed role-based web system digitizing university's paper-based complaint process, improving transparency through multi-tier admin access control.
- Tech: PHP, MySQL, HTML, CSS, XAMPP

Awards & Achievements

- Champion - UGC Innovation Showcasing 2024 (University Grants Commission of Bangladesh) - February 2024
- Champion (Idea & Project Showcase) - MBSTU Robo Tech Olympiad 2023 (MBSTU) - February 2023
- 1st Runner-Up (Project Showcase) - National Conference on Robotics & IoT 2023 (BSFMSTU) - November 2023
- Finalist - NASA Space Apps Challenge 2024 (Dhaka Regional) - October 2024
- Finalist - IUBAT TechnoCrats V2 (Dhaka Divisional Hackathon 2024) - December 2024
- Finalist - CEFALO ITVerse 2023 (Project Showcasing Competition, IIT, University of Dhaka) - November 2023

Certifications

- ICPC Asia Dhaka Regional Online Preliminary Contest Participant (2020, 2021, 2022, 2023, 2024)
- Build Your Own Cloud Platform: Mastering Orchestration with Kubernetes - IEEE CS Jagannath University SBC
- Introduction to DevOps - Great Learning - December 2023

References

Professor Dr. Md. Zulfiker Mahmud

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