

Omar Faruk

Software Engineer

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Professional Skills

- **Programming Languages:** C, JavaScript, Python
- **Frameworks & Libraries:** Next.js, React.js, Node.js, Express, Django, Leaflet.js
- **APIs & Services:** LINE Official Account Webhook Integration, LINE Login API, LINE Messaging API, OpenStreetMap API, AWS API Gateway
- **Cloud & DevOps:**
- **AWS Services:** EC2, ECS, ECR, RDS, S3, CloudFront, DynamoDB
- **Serverless & CI/CD:** AWS Lambda, API Gateway, Amplify
- **Tools:** Docker, Linux, Git
- **Other Tools:** Adobe Illustrator, Adobe Photoshop, Adobe Premiere Pro
- **Database:** キントーン, MySQL, MongoDB, DynamoDB
- **Dev Tools:** Git, GitHub, VS Code, Postman

Experience

株式会社 イーエムアイ・ラボ | Software Engineer

Nagano-Shi, Nagano | 05.2023-Current

- Develop and integrate LINE Official Account features, including webhooks, LINE Login, Message API, and LIFP applications.
- Work on Next.js, Express, Node.js, React.js, and DynamoDB to create web applications within AWS environments.
- Experienced in integrating OpenStreet API, and Leaflet.js for comprehensive mapping solutions.
- Working with Bluetooth Low Energy (BLE) technology, using Django for project development.
- Utilize Docker for containerization, ensuring consistent environments and streamlined deployment processes.

B-JET (Bangladesh-Japan IT Engineer Training Program) | Trainee

Dhaka, Bangladesh | 10.2022-03-2023

B-JET (Bangladesh Japan IT Engineer Training Program) program is a Professional Training program working with the objective of grooming and creating career opportunities for Bangladeshi ICT engineers. B-JET Program is a collaborative project of the ICT Division of the Bangladesh Government and the Japan International Cooperation Agency (JICA).

Skills: Japanese Language Proficiency | Time Management | Teamwork | Japanese Business Manner | Coding Challenge | Software Development.

Freelance Web Developer & Content Creator (Self-employed)

Dhaka, Bangladesh | 05.2020 – 09.2022

- Working on cPanel, phpMyAdmin, DNS Records, and other various
- Designing and building the website front-end.
- Collaborated and managed projects using Git and GitHub.
- Monitoring the performance of the live website.

Skills: HTML | PHP | CSS | Laravel | Bootstrap | MySQL.

Education

North South University | Bachelor of Science in Computer Science and Engineering

GPA: 3.65/4.00

Distinction: Magna Cum Laude (89% Marks)

Undergraduate Research - 2 journal publications

Working on Convolutional Neural Networks and Transfer Learning.

Dhaka | 05.2017-06.2022

Ideal College | H.S.C

Dhanmondi, Dhaka | 06.2024-06.2016

HSC in Science

Projects

- ふじみMaaS

Dec 2023 - Present

Fujimi MaaS is a comprehensive platform designed to streamline event organization and enhance user experience through real-time tracking and notifications. Key features include real-time vehicle tracking, dynamic event management, and optimal route planning using a brute-force TSP algorithm.

Technologies & Tools: React.js, Express, OpenRouteService API, AWS Lambda, Kintone, AWS Amplify, LINE Messaging API, LINE Login API, Google OR-Tools , Git.

[Demo](#) || [Details View](#)
- Simple RTK Location Tracking and Mapping Application

Apr 2024 - Jun 2024

Developed a Next.js-based application integrating a custom RTK device for precise location tracking, data visualization, and GIS shapefile export.

Technologies & Tools: Next.js, RTK Device, GSI Map (Japan GIS), Leaflet

[Details on Prtimes](#)
- ロギニング

Mar 2024 - May 2024

Developed a LINE-integrated application for real-time photo capture, location tracking, and map visualization, aiding urban planning in Izuna town.

Technologies & Tools: LINE Messaging API, GPS, Interactive Maps, Next.js, Server Database kintone

[Demo](#)
- デジタルマップ (For Bird Survey)

Mar 2024 - May 2024

Developed an application for real-time bird tracking and GIS data export, focusing on environmental research.

Technologies & Tools: QGIS, ShapeFile, leaflet.draw, leaflet.js + Turf.js, Next.js , Kintone
- ふじみNavi

Jun 2024 - Jul 2024

A comprehensive navigation app using OpenRouteService API for backend route retrieval and Leaflet with OpenStreetMap for interactive mapping. Supports multiple transportation modes (foot, car, bicycle) and allows dynamic waypoint management.

Technologies & Tools: Next.js, OpenRouteService API, Leaflet, OpenStreetMap, Map Visualization Tools
- Disaster Response System

Jan 2024 - Feb 2024

Developed a disaster response system utilizing drone-collected BLE device RSSI values and geographic coordinates to enhance rescue operations. Features include HeatMap creation, KMZ file generation, and real-time data visualization.

Technologies & Tools: React.js, Node.js, Leaflet, GSI Map (Japan GIS), BLE Device RSSI

Publications

Title: A Novel and Robust Approach to Detect Tuberculosis Using Transfer Learning

Journal of Healthcare Engineering

Skill: Deep Learning, Image Pattern Recognition, Transfer Learning, Image classification