Syed Faysel Ahammad Rajo

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Profile Summary

Full-stack developer experienced in building scalable, high-performance web applications using **MERN, TypeScript** stacks. Passionate about problem-solving, clean architecture, and exploring intelligent systems through research in computer vision and **AI/ML**.

Work Experience

Junior Software Developer   Nov 2024 – Sep 2025
Coastal Code Solution, Dhaka, Bangladesh

- Collaborated within a 5-member team both remotely and onsite to develop enterprise-level ERP and CRM applications under tight deadlines.

- Built scalable backend APIs and integrated frontend modules with **React, Next.js**, and **Redux**.

- Improved application performance through debugging, optimization, and structured state management.

Education

BRAC University, Dhaka   Jan 2021 – Oct 2025
Bachelor of Science in Computer Science and Engineering   CGPA: **3.46**

- Relevant Courseworks (Top Performer): Database Systems, Software Engineering, System Design Analysis, OOP, Data Structures & Algorithms, Data Communication, OS, Computer Networks

Technical Skills

Languages: C/C++, Java, Python, TypeScript
Competitive Programming & Problem Solving: 350+ problems solved in Leetcode, Codeforces, Hackerrank and vjudge. (handle: @syedrajo20)
Web Development: Node.js, Express.js, React, Next.js (MERN), HTML, CSS, Tailwind, Bootstrap, PHP(vanilla), Spring-boot (exploring)
Databases: MySQL, PostgreSQL, MongoDB
AI/ML: NumPy, Pandas, OpenCV, Scikit-learn, Matplotlib, Pytorch
DevOps & Tools: Docker, Git/GitHub, Linux, Windows
Soft Skills: Teamwork, Communication, Critical Thinking, Time Management, Public Speaking

Projects

Fullstack E-Commerce Website — (MERN Stack)   Apr 2025
Code (GitHub) — Live Demo

- Developed a responsive e-commerce platform with role-based access control and admin dashboard.

- Integrated secure authentication and payment methods.

Bike Service Management API — (Express, TypeScript, Prisma, PostgreSQL)   Apr 2025
Code (GitHub) — Live API

- Built this project to solidify my backend development expertise using above mentioned stack

- Developed RESTful API with proper documentation and relational database design.

- Implemented authentication and CRUD endpoints following industry best practices and clean code.

OpenCourseware (OCWx) — (Next.js, Tailwind)   Jan 2022
Code (GitHub) — Live

- Built a web app aggregating free learning resources; transitioned from vanilla JS to Next.js.

- Designed an intuitive UI to enhance discoverability and learning engagement.

BeIntelligent - A GoodReads like web app — (MERN Stack)   Nov 2023
Code (GitHub)

- Developed a Goodreads-like app for sharing and reviewing books as part of my SWE course

- Implemented Express backend and MongoDB database with React-based frontend under team collaboration

Achievements

- Top 25 / 400 Teams (6%) – Code Samurai Hackathon, 2024

- Finalist (Top 10) – BRAC University Programming Contest, 2022 & 2023

- Finalist (Top 5) – Database Wizards, BRACU Computer Club, 2024

- Code Crash Finalist – IEEE CS BRACU, 2023

Certifications

- Fullstack Web Development Bootcamp – Programming Hero (May 2025)

- Intermediate SQL – Datacamp (Mar 2025)

- OOP in Java – Datacamp (Mar 2025)

- Python Fundamentals – Hackerrank (Aug 2021)

Research Experience

Object Detection under Diverse Weather Conditions for Autonomous Systems using Visual Prompting (UG Thesis)   Jun 2024 – Oct 2025

Supervisors: Dr. Md. Golam Rabiul Alam, Md. Rafeed Rahman

- Researched deep learning–based object detection systems for autonomous vehicles under dynamic weather scenarios.

- Implemented visual prompting with YOLO and CLIP models to improve robustness and detection accuracy in adverse conditions.

Languages

Bangla (Native), English (Fluent), Hindi (Fluent), Japanese (Learning)

Hobbies and Interests

Photography & Filmmaking, Traveling, Reading, Building IoT projects