

A S M Rayhan Chowdhury

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SUMMARY

Software Engineer with a strong foundation in data structures, algorithms, and competitive programming. Passionate about building efficient, scalable, and user-friendly mobile applications using Flutter. Continuously improving development skills and currently expanding backend knowledge with Java Spring Boot to strengthen full-stack capabilities. Highly motivated to learn, solve complex problems, and contribute to impactful software projects in collaborative teams.

SKILLS

Programming Language: C, C++, Java, Python, Dart, SQL, JavaScript

Web: HTML, CSS

Frameworks: Flutter, Spring Boot, React

Libraries, Tools and Service Provider: Git, Firebase, Supabase, Roboflow

Architecture: MVC, MVVM

PROJECTS

Hirely | *Dart, Flutter, Supabase, Firebase, Riverpod*

- Developed Hirely, a cross-platform mobile job recruitment application using Flutter to connect recruiters and job seekers on a unified platform.
- Integrated Supabase (PostgreSQL) and Firebase for secure authentication, backend services, and scalable data management.
- Implemented core functionalities including job posting, job browsing, application submission, and application tracking for recruiters and applicants.
- Designed a clean and intuitive UI/UX to ensure smooth navigation and an engaging user experience across multiple app screens.
- Source Code: <https://github.com/asmrayhan1/Hirely>

Semantic Teeth Segmentation – Research Project | *Python, Roboflow, Deep Learning, Computer Vision*

- Developed a semantic segmentation pipeline to automatically identify and segment teeth regions from dental images using deep learning techniques.
- Prepared and annotated dental image datasets using Roboflow, performing preprocessing, labeling, and dataset management.
- Trained and evaluated a computer vision model to generate accurate segmentation masks for individual teeth detection.
- Analyzed model performance and segmentation accuracy to support potential applications in dental diagnostics and automated oral health analysis.

TechMart | *Dart, Flutter, Supabase, Riverpod*

- Built a mobile e-commerce application using Flutter to enable users to browse and purchase electronic accessories.
- Implemented Riverpod for state management to maintain scalable architecture and efficient data flow.
- Integrated Supabase for backend services, including database operations and real-time data handling.
- Developed features such as product catalog browsing, shopping cart management, and secure checkout functionality.
- Created an admin management module supporting CRUD operations for efficient product and inventory management.
- Source Code: <https://github.com/asmrayhan1/TechMart>

ACHIEVEMENTS

- ICPC Asia Dhaka Regional Contest (2024, 2025) – Regionalist.
- National Collegiate Programming Contest (NCPC) 2023 – Regionalist.
- Achieved **Specialist** rank on **III** Codeforces.
- Secured **8th place** in LU CSE Carnival Chapter-2, Leading University.
- **1st Runner-up** in Java Journey: The Ultimate Test, Leading University.
- Placed **6th** in LU Programmer Hunt 2023, Leading University.
- **Problem setter** at LUCC Presents Intra LU Junior Programming Contest.
- Solved **1700+ problems** across platforms; competed in 250+ online and 10+ onsite contests.

EXPERIENCE

Software Engineer Intern

Nov 2024 – Feb 2025

Ezycourse

Sylhet, Bangladesh

- Designed and implemented task management and e-commerce features, improving overall user experience and engagement.
- Collaborated with senior engineers to develop and optimize scalable applications using Flutter and Supabase
- Improved database performance and API integrations, reducing response times and ensuring smoother user interactions.

Programming Mentor

Jul 2024 – Present

LU, ACM

- Conducted programming mentoring sessions and doubt-solving workshops.
- Organized coding contests and problem solving challenges.
- Guided students in improving coding and problem solving skills.

Instructor

Dec 2024 – Feb 2026

LUCC Junior Programming Workshop

- Taught programming fundamentals including problem solving, algorithms, and basic data structures.
- Prepared programming exercises and guided students through competitive programming problems.

EDUCATION

Leading University

Jan 2022 - Expected Apr 2026

Bachelor of Science - Computer Science and Engineering (CGPA: 3.68 / 4.00)

Sylhet, Bangladesh

LANGUAGE

English: Professional

Bangla: Native