

Muqtasid Mohammad Hyder

Software Engineering Student · RMIT University

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SUMMARY

Software Engineering student at RMIT who genuinely loves building things — full-stack web, iOS, and systems-level projects — and is happiest when the work helps real people, whether in community, education, or health. I bring my own creative spark to a project while always delivering what the brief needs, pick up new tools fast, and I'm eager to be mentored and shaped into the developer a team needs. Looking for a software engineering, full-stack, or mobile internship where I can contribute, learn hard, and grow.

EDUCATION

Bachelor of Software Engineering

Expected 2028

RMIT University, Melbourne — includes Work Integrated Learning industry placement

- Apple Foundation Program graduate (Cohort 3) — four-week intensive in UI/UX design and iOS development with Swift & SwiftUI

PROJECTS

Venue Vendors — Full-Stack Venue Booking Platform

Mar 2026 – Jun 2026

React · TypeScript · Next.js · Node.js · Express · TypeORM · MS SQL (AWS RDS) · GraphQL · Apollo · JWT

- Built role-based dashboards (hirer/vendor/admin) with JWT auth, bcrypt hashing, and role-based access across REST API endpoints.
- Developed a separate GraphQL admin dashboard (Apollo) with vendor analytics charts; deployed on Render.

Dishcovery — iOS Cultural Heritage App (Apple Foundation Program)

Jun 2026 – Jul 2026

Swift · SwiftUI · Figma

- Team-built iOS app helping second-generation immigrants reconnect with their culture; developed SwiftUI screens including a world map, quiz flow, leaderboard, and a custom animated tab bar.
- Practised user-centred design: challenging assumptions, testing with users, and pivoting when early ideas didn't land.

Procedural Village Generation — C++ Algorithms (Minecraft)

Sep 2025 – Nov 2025

C++ · mcpp (Minecraft C++ API) · Git

- Built a procedural village generator in a team of 3, writing the core plot-finding, validation, and terraforming algorithms.
- Created deterministic test suites to guarantee consistent generation across seeds and coordinate systems.

Disease Outbreak Modelling — Graph Algorithms

Mar 2026 – Jun 2026

Python · Graph algorithms · Dynamic programming

- Modelled disease spread across a population graph, analysing infection risk and planning limited-resource interventions.
- Implemented dynamic-programming and allocation algorithms, validated with test cases across varied inputs.

EXPERIENCE

Conference Assistant — United Nations (COP16 Riyadh 2024)

Nov – Dec 2024

- Guided delegates and supported clear communication across a major international UN climate summit.

Event Production Crew — Sela & Formula 1

2023

- Supported production teams at major Saudi Pro League and Formula 1 events, including drone pre-flight inspections and operational planning.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, C++, Python, Swift, SQL

Web & Mobile: React, Next.js, Node.js, Express, TypeORM, GraphQL, Apollo, SwiftUI, Tailwind CSS

Tools & Cloud: Git, GitHub, GitHub Actions, AWS (RDS), Maven, Figma, JWT/bcrypt auth

LEADERSHIP & ACTIVITIES

- **Active** member of RMIT Matrix Club (algorithms, data structures, and LeetCode practice) and RMIT CSIT society.
- **Logistics Officer** for the RMIT Bangladeshi Association (RBA), coordinating events and on-the-ground operations for the student community.
- **Student Staff Consultative Committee** (RMIT Foundation Studies, RMIT UP): gathered and analysed student feedback with staff to improve academic programs and student experience.