

SINAN MUSTANJID HAQUE

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SKILLS

Java, Python (NumPy, Pandas), C, SQL, JavaScript/Typescript (React, Lit, Node.js), Data Structures and Algorithms
Excel, Unit Testing, Git/GitHub, Linux/Command Line Tools, Dart (Flutter), Kafka, ML, Next.js, Supabase, MongoDB

EDUCATION

Macquarie University (WAM: 91.3)

Macquarie Park, NSW, 2113

BIT, Major in Software Technology, Minor in App & Web Development

Expected Graduation: 2026

EXPERIENCE

Macquarie University

Macquarie Park, NSW, 2113

Computing Drop-In-Center Staff

Jul. 2025-Present

- Provided one-on-one and small-group assistance to students in computing units, including but not limited to OOP, data structures and algorithms, web development, databases, design patterns and data science concepts.
- Guided peers through debugging code, understanding concepts, and applying problem-solving strategies.
- Adapted explanations to suit varying levels of technical knowledge, ensuring accessibility and clarity.

Macquarie University

Macquarie Park, NSW, 2113

Research Intern

Nov. 2024-Feb. 2025

- Collaborated directly with the Director of Education to design a new comprehensive Python programming curriculum, which was adopted by 300+ students in its initial rollout.
- Spearheaded a new Python unit from concept to completion, integrating 200+ custom coding challenges in an Agile sprint-based environment to enhance learners' proficiency in algorithms, data structures, object-oriented programming concepts and problem-solving and wrote extensive tests for each of them.

PERSONAL PROJECTS

PERSONAL WEBSITE | *React, Vite, Express, MongoDB, React Router, Axios, Mongoose, GitHub Actions, Vitest*

- Building a fullstack responsive portfolio with dynamic routes using React, Express and MongoDB for the database
- Wrote unit/integration tests with Vitest and React Testing Library (mocked Axios & components) and a backend health test with Node's test runner/Supertest
- Established CI/CD with GitHub Actions and Render: automated build/test on push and auto-deploy to Render (frontend static site + backend web service) with environment variables and health checks.
- Available to view [here](#) or in my github profile.

CLEAN WALK | *Flutter, Firebase (Auth, Firestore, Storage), SharedPreferences, Mockito, Figma*

- Developed an MVP of a mobile app that promotes sustainability by enabling users to log and share litter cleanups with before/after photos, location tags, and descriptions.
- Implemented secure user authentication and registration using Firebase Authentication.
- Built Firestore integration to persist cleanup history and user stats, along with Firebase Storage for image hosting.
- Conducted unit and widget testing with Mockito to validate Firebase Authentication and app functionality.

FLASHCARD STUDY APP | *React, TypeScript, MobX, Vite, HTML, CSS*

- Built an interactive flashcard app with real-time flipping, deletion, and local persistence.
- Developed reusable and modular components using React to render and manage dynamic flashcards.
- Used MobX to manage application state and TypeScript to enforce type-safe component logic.