

SINAN MUSTANJID HAQUE

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SKILLS

Java, Python (NumPy, Pandas), C, SQL, MongoDB, JavaScript/Typescript(React, Lit), Data Structures and Algorithms, Docker, Excel, PowerBi, Unit Testing (JUnit), Git/GitHub, Machine Learning, Linux/Command Line Tools, Dart(Flutter)

EDUCATION

Macquarie University(WAM: 91.3)

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

Macquarie Park, NSW, 2113

Expected Graduation: Jul 2026

EXPERIENCE

Macquarie University

Computing Drop-In-Center Staff

Macquarie Park, NSW, 2113

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

Research Intern

Macquarie Park, NSW, 2113

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 the integration of 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.

PERSONAL PROJECTS

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

- Developed 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.
- Designed a customizable home screen with locally persisted preferences via SharedPreferences.
- Conducted unit and widget testing with Mockito to validate Firebase Authentication and app functionality.

BANK ACCOUNT APP | *Java, Swing, OOP, GUI*

- Built a desktop banking application with a Java Swing GUI to manage multiple user accounts.
- Enabled account selection via dropdown with real-time balance updates, deposits, and withdrawals.
- Applied object-oriented design to encapsulate account logic and practice event-driven programming.

VIDEO GAME SALES DATASET ANALYSIS | *Python, Pandas, NumPy, Matplotlib, Scikit-learn*

- Conducted exploratory data analysis on global video game sales using Pandas and NumPy to identify genre preferences, regional trends, and rating correlations.
- Built and evaluated Linear, Polynomial, and Logistic Regression models to predict sales figures .
- Visualized trends in sales and genre distribution using Matplotlib to present insights clearly and effectively.