

Isa Bin Mohamed Yamin

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EDUCATION

Nanyang Technological University

Singapore

Bachelor of Engineering in Computer Engineering, Second Major in Data Analytics

Aug. 2023 – Present

- Dean's List (AY 2023-2024)
- Relevant courses: Data Science & Artificial Intelligence, Linear Algebra for Computing, Data Structures & Algorithms, Operating System, Software Engineering, Object-Oriented Programming, Database Systems

EXPERIENCE

Software Engineer Intern — *Spring Boot, Mongo, Docker, Angular*

Jul 2025 – Present

Discovermarket Asia

- Contributed 4 pull requests with unit and integration tests, improving API infrastructure across distributed Spring Boot microservices that streamlines the onboarding process for business clients.
- Improved micro-frontend features with 1 pull request in the Angular-based dashboard by optimizing UI configuration flows.
- Authored detailed documentation for new backend and frontend logic, including setup guides, new data in DEV and UAT environments, and testing procedures for smoother cross-team collaboration.
- Experience with fast-paced environment under Agile methodology using collaborative tools such as Jira, Github.

ACADEMIC PROJECTS

Property Search Recommendation Web Application | *Next.js, Typescript, Supabase, PostgreSQL*

2025

- Implemented interactive vector map using Mapbox that displays property listings and other facilities sourced from external APIs and scraped from websites.
- Designed and planned the system architecture using software modeling tools such as use case diagrams and descriptions, sequence diagrams, and the MVC design pattern to ensure clarity and scalability.
- Led a team of developers in adopting Agile methodology with periodic sprints and retrospectives.

Hospital Management System CLI | *Java, Git*

2024

- Collaborated with a few peers to develop a command line interface that implements authentication, provides varied functionalities based on the role of the user, and enforces data persistence
- Designed the UML diagram, and maintained changelog and documentation

Water Sort Puzzle AI | *Python, Pandas*

2024

- Developed an AI program that solves randomized water sort puzzles using 7 search algorithms such as A*.
- Implemented an automated performance analysis on the various search algorithms to determine most efficient algorithm.

PROJECTS

Shill Wars Web Application | *Next.js, Typescript, Supabase, PostgreSQL, Figma*

2025

- Created <https://shillwars.com> which is a platform for memecoin enthusiasts to submit links and view the social media posts of their community.
- Planned and designed the system using user model diagram, description and wireframing
- Implemented authentication and single sign-on with Supabase

Mobile App - HTML Editor | *React Native, Expo, SQL, Typescript, Figma*

2024

- Designed and built a cross-platform mobile app that comes with a code editor that compiles HTML, CSS and Javascript languages
- Added auto-completion and auto-suggestion features into the code editor as well as real-time viewing of the code output
- Utilized state management, local storage data persistence with SQLite, and routing

TECHNICAL SKILLS

Languages: English, Malay, Indonesian, Typescript, Javascript, Python, Java, C, C++, SQL, Go, Bash

Technologies: Git, Docker, MongoDB, Postman, Bash, Next.js, React, React Native, Svelte, Flutter, PostgreSQL (Supabase), MySQL, SQLite, Flask, Node.js, Express, Figma