

TAUFIQ MOHAMMED

HP: 96507214 Email: t.m@u.nus.edu

PROJECTS

- Tani.run: A visual programming editor with an infinite canvas using React and real-time collaborative editing with Y.js (CRDT framework) <https://github.com/tanirun/tani>
- Modified Gale-Shapley algorithm to implement many-many matching for over 500 students to respective committees in Sheares Hall
- Developed an Android application (KKH PAN) to be a quick reference guide, emergency handbook and drug calculator for paediatric anaesthesiologists in KK Women's & Children's Hospital; Used by over 100 doctors

EXPERIENCE

Developer / Fire-Fighter, Singapore Civil Defence Force, Singapore May 2020 - May 2022

- Created a PowerPoint generator website using React with off-line caching for fire-fighters to quickly generate slide deck reports about cost recovery matters regarding false alarms dispatches; Deployed force-wide; <https://decam.netlify.app/>
- Prototyped a Hazardous Material (HazMat) detector simulator with XState.js for front-liners to prepare with and increased readiness during actual threats
- Nominated for Full-Time National Serviceman (NSF) of the Year 2021; Been awarded with the Service Excellence Award and the Good Performance Award

Software Engineering Intern, Open Government Products, Singapore Sep 2019 - May 2020

- Created a bank note exchange system in React, Express, and PostgreSQL for banks to record and keep track of over 2 million limited edition \$20 notes (Singapore Bicentennial) exchanges across Singapore
- Implemented a drag and drop file explorer for IsomerCMS; Manipulates website's git repository internals (Blobs, Trees, etc.) through the Git Database API to allow multiple file reorders in fewer requests
- Built Homer, a COVID-19 pandemic website and mobile app (React Native) solution for ensuring user compliance of quarantine notices; had up to 80,000 users

Student Developer Intern, IHPC @ A*STAR, Singapore Nov 2018 - Apr 2019

- Engineered a web platform with MapBox and Ruby on Rails to display and manage industrial applications of multiple water pipe leakages across Singapore

Android Developer Intern, Codigo, Singapore Jan 2017 - Apr 2017

- Wrote the Android driver app for a leading telehealth service (WhiteCoat) in Kotlin, to facilitate doorstep delivery of prescribed medication to customers
- Built SwimToFly for people to learn how to swim through a range of videos and quizzes with Java
- Added long-awaited promotion code feature to Comfortdelgro SWAN TAXIS App

EDUCATION

National University of Singapore May 2025
Bachelor of Computing in Computer Science

- GPA 4.73 / 5.0

Ngee Ann Polytechnic Apr 2017 - Apr 2020
Diploma in Information Security & Forensics

- GPA: 3.91 / 4.0

SKILLS

Languages, Tools & Frameworks: Typescript, Javascript, Java, React, React Native, Express, Git