

Dan Huy NGUYEN

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EDUCATION

University of New South Wales

Feb 2018 – April 2024

Bachelor of Engineering (Hons) (Mechatronics) / Bachelor of Science (Computer Science)

- Graduated 1st class with total weighted average mark of 82.622.

PROJECT EXPERIENCE

Social Media App

August 2024 – Current

Fullstack Developer

- Designed social media mobile app that is cross between popular Dress To Impress Roblox game and BeReal.
- Implemented with Flutter + Firebase (Functions, Firestore, Storage, Authentication, AppCheck), Google & Apple social authentication, and custom camera and gallery picker.

TV Mate

May 2024 – June 2024

Application Developer

- Designed and implemented Flutter MacOS and iOS app with mDNS-enabled IR-firing IoT devices (ESP8266) for remote control of multiple TVs via websockets over LAN.

Split Payment App

Sep 2023 – Current

Application Developer

- Solely prototyping multiplayer split-payment app with fractional splitting enabled by multi-range sliders and OCR for receipt-digitisation.
- Built with Firebase, Firestore, React, Mantine UI, Tabler, immer, react-slider, tesseract.js, wouter, zustand, Vite, Vitest.

ACADEMIC PROJECTS

COMP6080 – Web Front-End Programming

May 2023 – Dec 2023

- Built frontend Airbnb clone (using React, Mantine, SWR, Axios, Wouter, Zustand) given backend API to achieve course mark of 90.
- Built frontend web messaging platform (in pure vanilla JS, HTML, CSS, and Bootstrap) given backend API and using Web APIs like HTML DOM, Intersection Observer, and Navigation.

TECHNICAL SKILLS

Robotics development

- ROS1/2, RViz, Gazebo.
- Webots.
- URDF, SDF.
- C++20 (Catch2, GoogleTest, doctest, GoogleBenchmark, CxxTest).
- Assembly (MIPS).
- MATLAB (Simulink).

store, Storage).

- Flutter.
- AWS (Amplify, EC2, S3).

Other Programming Languages

- Python <=3.9 (Jupyter, OpenCV).
- Java 17 (OOP, design patterns).

Software Tools

Full Stack App Development

- HTML, CSS, JS, TS.
- React.
- PostgreSQL, PL/pgSQL.
- Firebase (Authentication, Functions, Hosting, Fire-

- git.
- GitHub (Actions, Classroom).
- GitLab.
- VSCode, Visual Studio.
- WSL, Ubuntu, Debian, Windows 10, Mac.