

TECHNICAL PROJECTS

WORKOUT TRACKING APP

<https://workout-app-xi.vercel.app/>

- Built a **CRUD** exercise app with responsive frontend using **React, HTML**, and **CSS**.
- Implemented **RESTful JSON APIs** with **Express, NodeJS** and the database using **MongoDB**.
- **CI/CD** pipeline with staging and production environments with **Buildkite** and deployed on **Vercel**.
- Implemented functional and unit tests using **Jest**.

TEKKEN 8 STAT TRACKER APP

<https://tk8-tracker-stats.vercel.app/>

- A data tracking web application inspired by OP.GG that uses **RESTful JSON APIS**, with **Express, NodeJS** and ability to **cache** with **REDIS**.
- It has a player **search** function, analyzes player and matchup data with **pagination** for match history.
- Responsive frontend developed with **React, HTML**, and **CSS**.

PERSONAL PORTFOLIO WEBSITE

<https://tim-li-portfolio.netlify.app/>

- Website designed to have a responsive UI.
- Developed with **NodeJS, CSS, HTML, React JS**, and **Tailwind** for the frontend.

MACHINE LEARNING PROJECTS

- Utilising **Gymnasium API** and **Python** create reinforcement learning environments.
- Trained the agent using **Python** to complete a game of Atari Pong and balance a pole on a cart.
- Used reinforcement learning on the **Nvidia Jetbot** to identify road signs while navigating a road course.

TECHNICAL SKILLS

Frameworks and Tools:

Languages: JavaScript | Python | HTML/CSS | Java | C | VHDL

Software: React | NodeJS | MongoDB | Tailwind | Express | GitHub | Buildkite | Jest | Redis

Hardware: Altium Designer | Oscilloscopes | Quartus | LTspice

EDUCATION

The University of Auckland

Auckland, NZ

Bachelor of Engineering (Honours) in Computer Systems Engineering

VOLUNTEERING WORK

Chinese Herald

Auckland, NZ | 2016 - 2018

- Promoting and distributing sponsored merchandise during the Lantern Festival

HOBBIES/INTERESTS

Art: Passion for art at an early age, photorealism styles and architectural drawings.

Bouldering: I boulder 2 to 3 times a week and journey to improve my climbing skills is fun.

Model kit building: Enjoy building model kits, especially Gunpla (mecha models from Japan).

Video Games: I enjoy Esports and playing games such as Tekken, Elden Ring, League of Legends, CS, MHW.