Tim Li

Aspiring Engineer

Current Address
Current Location
NZ Citizen

Current Number
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TECHNICAL PROJECTS

Projects:

- **<u>Workout Todo list: Tech Stack</u>**: MongoDB, Express.js, React, Node.js, Buildkite
    - A todo list that is exercised themed and can create, update and delete to-do items
    - Implemented pagination and utilising MongoDB as the database
    - Hooked up to a basic CI/CD pipeline using Buildkite

Uni Projects:

- Part of a team building a smart energy monitor that communicates via Bluetooth. I designed the circuitry for the PCB and helped implement the firmware.
- Capstone Project is making a smart scale for the SPCA. Designing the firmware with a team
- Recreated flappy bird using an FPGA board with VHDL.
- Learned front end and designed low and high-fidelity carbon footprint website using HTML and CSS.

Machine learning projects:

- Training a robot to navigate around a lab room.
- Trained an agent how to play an Atari game (Pong).
- Using the Nvidia Jetbot to navigate a course identifying and reacting to road signs and traffic signals.

EDUCATION
Auckland University

Computer Systems Engineering (HONS)

- The degree covers software and hardware engineering. It ranges from electrical circuitry design, and low-level I/O programming to high-level software architecture. I chose this degree because I was interested in computers and the tech space. I figured this might increase my knowledge and expand my skillset in the tech industry.

TECHNICAL SKILLS

Software Languages:

- Javascript; HTML; CSS; C; VHDL; MATLAB; Python; Java.

Frameworks and Tools

- MongoDB; React; Node.js; Express.js; Buildkite; Jest; GitHub; Postman
- Able to use Altium to design PCB circuits
- Other tools: Use of oscilloscopes and LTspice for testing electrical circuits

VOLUNTEERING WORK

Chinese Herald
- Lantern Festival 2016 - 2018
- Helping the organisation stall by promoting and distributing sponsored merchandise.

HOBBIES/INTEREST

WDCC Marketing Executive

- I am an executive at the Web Development Consulting Club, promoting events about the tech industry, consulting and web development.

Art

- Have a passion for art at a young age, mainly architectural drawings and photorealism styles. Love drawing leisurely and improving my craft.

Model Kit Building

- Enjoy building model kits, especially Gunpla (mecha models).

Video Games

- I enjoy Esports and playing video games such as League of Legends, Tekken, Elden Ring and Monster Hunter.