

Trent Mitchell

Brighton | 0426 002 132 | tskipmitchell@yahoo.com

EDUCATION

RMIT University

Graduation: Nov 2025

Bachelor of Computer and Network Engineering (Honours) &

Bachelor of Computer Science

GPA: 3.3

Coursework: Embedded systems, Programming, Networks, Algorithms, AI

Box Hill Senior Secondary College

Graduation: Nov 2020

Victorian Certificate of Education

ATAR: 80.05

Coursework: Physics, Mathematics, Psychology, Business Management

PROJECTS

Mock home management system using ARM Cortex-M4 microcontroller.

This was a project for university where the microcontroller is reading a temperature (potentiometer) and activating/deactivating the heating and cooling systems (LEDs). Other features such as fake light switches were included and UART communication. The program was written in the Assembly language.

NFC card reader controlling Spotify using Raspberry Pi

A personal project I completed allows a Raspberry Pi to read NFC cards which when scanned perform different actions on my Spotify. Using the Spotify API I can play/pause the music, play a song, playlist or album, toggle shuffle and so much more. An LED strip is also attached to the Raspberry Pi which is controlled by some of the other NFC cards.

Rover using Raspberry Pi

I'm currently working with a friend to create a hybrid MARS rover type of vehicle. We are 3D printing a combustion engine which will be responsible for moving the rover and charging the batteries. A Raspberry Pi is the brains of the operation and hosts a web server which can be accessed over Wi-Fi to control the rover. The rover can also be advanced through electric motors, a live stream is available on the website and will have autonomous capabilities.

Therapy like AI chat-bot

I'm currently in working on a group university project where we are building an AI chat-bot for our client who wants to support people with mental health struggles. We are using the Gemini API and have been tuning the bot's responses to help it act as though it is a therapist and provides supportive and appropriate responses to the user.

Wordle game

I made my own version of the Wordle game which operates exactly the same as seen on New York Times. This was just a fun personal project for a challenge.

Grocery store price comparator

For a university group project, we built a website that compares the prices of identical items across multiple stores (data was all made up by us). The Spring boot application was built with a combination of Java, JavaScript, HTML, CSS and MySQL for the database.

EXPERIENCE

Bussie supervisor, Stores member

The Esplanade Hotel

Oct 2021 - Present

- Managing a team of bussies through delegation and efficient communication improved my leadership and teamwork skills.
- Completing stocktakes, ordering and distributing stock in an organised manner helped me progress my organisation and inventory management.

Pick packer / Warehouse assistant

Aqua Dash

Jan 2021 – Present

- Organising a warehouse to maximise productivity and efficiency when receiving and delivering stock improved my planning and problem-solving skills.
- Packing orders correctly enhanced my attention to detail.

Basketball Referee

Nunawading Basketball association

Oct 2017 – Aug 2021

- Managing players and spectators in a stressful environment provided me the ability to maintain composure and make good decisions whilst under pressure.
- Umpiring many consecutive games improved my physical fitness and helped me improve my focus when I am tired.

SKILLS

- Problem solving
- Leadership, communication, and teamwork
- Time management
- Programming (Java, C, C++, Python, JavaScript, MATLAB)
- Database design and management

ACHIEVEMENTS AND QUALIFICATIONS

- Responsible Service of Alcohol (RSA)
- Probationary drivers licence
- School captain
- 2x year level captain
- Referee rookie of the year
- Basketball team captain

ABOUT ME

Passionate about programming and tech projects, I thrive on solving complex problems and bringing my ideas to life through software and hardware. I love learning new things through reading and working on my tech projects. Beyond technology I prioritise sport and fitness, embracing challenges with grit and determination.