

Trent Mitchell

Melbourne | 0426 002 132 | tskipmitchell@yahoo.com

Discover a more detailed and interactive view of my experience and skills on [my website](#).

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

- University project to imitate a home management system
- Potentiometer and LEDs to represent temperature and heating and cooling systems
- UART communication
- Assembly language

NFC card reader controlling Spotify using Raspberry Pi

- Created with Python using OOP and threading
- Accesses the Spotify API
- Reads NFC cards which trigger relevant functions
- GPIO and hardware skills to control the LEDs and get data from the scanner

Rover using Raspberry Pi (early stages)

- Utilising Raspberry Pi for control by hosting web server for remote operation and live streaming
- 3D printing custom chassis and combustion engine to drive the rover
- Integrating hybrid propulsion using the combustion engine and electric motors
- Contains autonomous driving capabilities
- Power management (batteries, alternator and solar)
- Gaining skills in robotics using Python

Therapy like AI chat-bot

- Team collaboration to develop an AI chat-bot
- The chat-bots purpose is to provide support to people who struggle with mental health
- Utilises the Gemini API with intensive prompt engineering to recalibrate the responses

Wordle game

- Built with Java and JavaFX
- Uses SQL database
- Follows MVC architecture

Grocery store price comparator

- Collaborative university project to build application that compares prices of products across different stores
- Built with Java for the backend and uses React with the frontend
- Deployed using Docker
- Utilises MySQL

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.

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

SKILLS

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