

# Mikai Somerville

[mikai.somerville@gmail.com](mailto:mikai.somerville@gmail.com) | (+64) 02108705614 | [www.mikaisomerville.com](http://www.mikaisomerville.com) | [www.linkedin.com/in/mikaisomerville](https://www.linkedin.com/in/mikaisomerville) | [github.com/mikais13](https://github.com/mikais13)

## Education

### The University Of Auckland | Waipapa Taumata Rau

#### Bachelor of Science (BSc) majoring in Computer Science

February 2024 - November 2026

- **9.0/9.0 GPA - A+ average**
- Currently in **Penultimate** year of study
- **First in COMPSCI 130** - Introduction to Software Fundamentals - **Python** and **Algorithms and Data Structures**

#### Young Scholars Programme

February - June 2023

- **A+ in MATHS 199** - Advancing in Mathematics

### Katikati College

#### NCEA Levels 1, 2, and 3, and NZ Scholarship

February 2017 - November 2023

- Achieved Outstanding Scholarship (**Top 27 Students**) in Biology, and Scholarship (**Top 236 Students**) in Physics
- **Dux** Award in 2023 for Highest Academic Achievement
- Gained NCEA Level 1 (2021), Level 2 and Level 3 (2022) endorsed with **Excellence**, including **100% Excellence** credits in Level 3

## Relevant Experience

### Research and Development Intern

November 2024 - February 2025

#### PGG Wrightson

- Developed an **industry-first**, statistically significant **computer vision** program with **OpenCV** and **NumPy** in **Python** to find kiwifruit size using **ToF RGB-D imaging** technology
- Completed a comprehensive **research project** including literature review, scientific report, and presentation
- Performed **data analysis** with **Excel** for experimental trials on kiwifruit biostimulants

## Projects

### Personal Portfolio Website - [Github](#)

- **Technologies:** React, Javascript, Sass, React Router, Motion
- Designed and developed a **responsive** website using **React**, and **Sass**, along with **Motion**, to display my experience, projects, skills, and further information about myself
- Deployed using **Vercel** and a custom domain

### Spin Spot

- **Technologies:** Next.js, React, Typescript, Spotify API, Discogs API, Auth.js, Tailwind CSS, Motion
- Currently developing a **web application** to sync albums listened to on vinyl with Spotify listening data using **React** in **Typescript** within the **Next.js** framework, with **Tailwind CSS** used for styling and **Motion** extending animations
- Implemented authentication with **Auth.js** and searching using Spotify and Discogs external **APIs**

### Premier League Match Predictor - [Github](#)

- **Technologies:** Python, Pandas, Scikit-learn, Beautiful Soup
- Implemented a **Random Forest Machine Learning Model** through **Scikit-learn** in **Python**, to predict the outcome of Premier League matches, improving accuracy to 64%
- Performed **web scraping** with **BeautifulSoup** to gather data, captured in **Pandas**, about Premier League matches

## Technical Skills

**Programming Languages:** Python, Java, Javascript/Typescript, SQL, HTML, CSS, PHP, MATLAB, R

**Frameworks and Libraries:** React, Next.js, OpenCV, NumPy, Pandas, Scikit-learn, Tailwind CSS, Sass, Bootstrap, Auth.js  
Tkinter, JavaFX, Motion, Anime.js

**Technologies:** Visual Studio Code, Github, R Studio, Excel

**Driver's Licence:** New Zealand Class 1 Full

## Awards

- The University of Auckland **Top Achiever Scholarship** - valued at \$25,000
- **First in COMPSCI 130** - Introduction to Software Fundamentals - **Python** and **Algorithms and Data Structures**
- **Dux** of Katikati College 2023
- 2022 **First** in Level 3 Calculus and Digital Technology, and 2023 **First** in Level 3 Physics and Chemistry