Mikai Somerville

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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
- **Relevant Courses:** Algorithms and Data Structures, Object-Oriented Programming, Software Development Methodologies, Artificial Intelligence, Discrete Mathematics, Introduction to Software Fundamentals

Young Scholars Programme February - June 2023

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

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, Framer Motion
- Designed and developed a **responsive** website using **React**, and **Sass**, along with Fr**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, C, SQL, HTML, CSS, PHP, MATLAB, R
Frameworks and Libraries: React, Next.js, OpenCV, NumPy, Pandas, Scikit-learn, Tailwind CSS, Tkinter, JavaFX
Technologies: Git/Github, Visual Studio Code, 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