Mikai Somerville

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Education

The University Of Auckland | Waipapa Taumata Rau

Bachelor of Science (BSc) majoring in Computer Science Feb 2024 - Nov 2026

- **9.0/9.0 GPA** - **A+** average
- **Relevant Courses:** Algorithms and Data Structures, Object-Oriented Programming, Software Development Methodologies, Artificial Intelligence, Discrete Mathematics, Calculus, Algebra

Young Scholars Programme Feb - Jun 2023

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

Relevant Experience

Full-Stack Developer Apr 2025 - Present

WDCC - Web Development and Consulting Club

- Enhancing the **Auckland University Badminton Club**'s web application for **>1,000** active users utilising a **Next.js** front-end in **Typescript**, and implemented with **Payload CMS,** using **Yamada UI** styling
- Migrating back-end to **MongoDB** from a **PostgreSQL** solution using **Drizzle**
- Collaborating in an **Agile** environment with 10 team members using **Github** workflows, and **CI/CD** principles

Research and Development Intern Nov 2024 - Feb 2025

PGG Wrightson

- Developed an **industry-first computer vision** program with **OpenCV** and **NumPy** in **Python** to measure kiwifruit size using **ToF RGB-D imaging** technology
- Completed a comprehensive **research project** including literature review, scientific report, and presentation
- Performed **data analysis** with **Microsoft 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 **Framer Motion**, to display my experience, projects, skills, and further information about myself
- Deployed using **Vercel** and a custom domain

Premier League Match Predictor Github

- **Technologies:** Python, Scikit-learn, Pandas, 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 EPL matches

Technical Skills

Programming Languages: Python, Java, Javascript/Typescript, SQL, HTML, CSS, PHP
Frameworks and Libraries: React, Next.js, OpenCV, NumPy, Pandas, Scikit-learn, Tailwind CSS, Tkinter, JavaFX
Technologies: Git/Github, Visual Studio Code, Microsoft Office

Awards

- The University of Auckland **Top Achiever Scholarship** - valued at $25,000
- **First in COMPSCI 130** - Introduction to Software Fundamentals - Python, **Algorithms and Data Structures**
- **Dux** of Katikati College 2023 for Highest Academic Achievement
- Outstanding Scholarship (**Top 0.3% of Students**) in Biology, and Scholarship (**Top 3% of Students**) in Physics
- 2022 **First** in Level 3 Calculus and Digital Technology, and 2023 **First** in Level 3 Physics and Chemistry