

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

- **8.94/9.0 GPA**
- **First in COMPSCI 130** - Introduction to Software Fundamentals - Python, **Algorithms and Data Structures**
- **Tech and Education Executive** at UOACS - University of Auckland Computer Science Society

Relevant Experience

Software Engineer Intern

Nov 2025 - Present

Generate Zero

- Developing the signature Footprint SaaS platform, working on features across the full stack **Next.js** app, and **NestJS**, and **GraphQL** backends, including building **React** components, and scalable **Rest and GraphQL APIs**

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

University of Auckland Badminton Club Website

[Link](#) | [Github](#)

- **Technologies:** Typescript, Next.js, React, Payload CMS, Vitest, Tanstack Query, MongoDB, Yamada UI, Storybook
- Enhanced the Auckland University Badminton Club's web app for **>1,000 active users**, utilising a **Next.js** frontend in **Typescript**, using **Yamada UI** styling, and a backend implemented with **Payload CMS** and **MongoDB**
- Built full-stack unit and integration tests using **Vitest**, and documenting UI components using **Storybook**
- Collaborated in an **Agile, Kanban** environment with 10 team members using **Git** and **GitHub Actions** for CI/CD

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 about EPL matches, captured using **Pandas**

Technical Skills

Programming Languages: Typescript, Python, Java, SQL, HTML, CSS

Frameworks and Libraries: React, Next.js, OpenCV, NumPy, Pandas, Scikit-learn, Tailwind CSS, Motion, Payload CMS, Yamada UI, Tkinter, JavaFX, SQLAlchemy, Prisma, Astro

Tools and Platforms: Git, Github Actions, Cloudflare, Vercel, Vitest, Storybook, Pytest, pnpm, Bun

Awards

- University of Auckland **Top Achiever Scholarship** in 2024 - valued at \$25,000
- **Rutherford Science High Achiever Scholarship** in 2025 - valued at \$10,000
- **Most Overengineered** for our project "RSS Memories" in the 2025 WDCC x SESA Hackathon
- **Most Production Ready** for our project in the 2025 WDCC x Partly Hackathon
- **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