Mikai Somerville

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Education

The University Of Auckland | Waipapa Taumata Rau

Bachelor of Science (BSc) majoring in Computer Science (8.94/9.0 GPA) Feb 2024 - Nov 2026

- **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 - Generate Zero Nov 2025 - Present

- Developed full-stack features across the platform with **Next.js, React, TypeScript, TailwindCSS, Prisma,** and **SQL Server** to improve automation, scalability, and user experience
- **Streamlined organisation onboarding** through a self-service bulk upload with automated file parsing, eliminating manual analyst intervention, and supporting faster market expansion
- Built a data migration tool **capable of migrating 2M+ records** across numerous tenant databases into a single source of truth, alongside an **OpenFeature-based feature flag system**, enabling safe and controlled rollouts

Research and Development Intern - PGG Wrightson Nov 2024 - Feb 2025

- 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 a literature review, scientific report, and presentation
- Performed **data analysis** with **Microsoft Excel** for experimental trials on kiwifruit biostimulants

Projects

UoA Badminton Club Website Link | Github

- **Technologies:** Typescript, Next.js, React, Payload CMS, Vitest, Tanstack Query, MongoDB, Yamada UI, Storybook
- Enhanced UABC's web app utilising a **Typescript** monorepo with a **Next.js** frontend using **Yamada UI** styling, a backend implemented with **Payload CMS**, and a **MongoDB** database
- Built full-stack unit and integration tests using **Vitest**, and documented UI components using **Storybook**
- Collaborated in an **Agile, Kanban** environment with 10 team members using **Git,** with **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** with **Pandas**, to predict the outcome of Premier League matches, improving accuracy to 64%

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, Prisma, SQLAlchemy, Astro
Tools and Platforms: Git, Github Actions, Cloudflare, Vercel, Fly, Docker, Vitest, Storybook, Pytest, pnpm, Bun

Awards

- **Inaugural Rutherford Science High Achiever Scholar** in 2025 - valued at $10,000
    - Awarded to the science student who best demonstrates **academic merit and all-around ability**
- University of Auckland **Top Achiever Scholarship** in 2024 - valued at $25,000
- **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
- Outstanding Scholarship (**Top 0.3% of Students**) in Biology, and Scholarship (**Top 3% of Students**) in Physics