

Hayley Sharpe – Curriculum Vitae

Contact Details

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Education and Recognitions

University of Auckland	2023-
Third year of Bachelor of Science, Double Major in Computer Science and Mathematics.	
Top Achiever Scholarship recipient	2023
University of Waikato	2022
Introduction to Calculus (completed during final year of high school) - A+ grade, with the top final examination mark in the course	
Hillcrest High School, Hamilton	2018-2022
Head Student	2022
Year 13 - 1st overall student (Dux), with 5 Distinctions, Top Student awards in 4 subjects & 1 Service Award. NCEA Scholarships in Calculus, Digital Technologies	2022

Experience

Software Engineering Intern - Serato	2024-2025
Events Coordinator, Lab Demonstrator - Computer Science Department, Auckland University	2024-
Teacher's Assistant - Mathematics Department, Auckland University	2024
Retail Assistant - Torpedo7 Hamilton	2022-2023
Swimming Coach - St Paul's Swim Club	2020-2022

Technical Skills

Programming and problem solving - Python, Java, C, C#, PHP, general web development and mathematics

- 12-week internship at Serato
 - Collaborated in 2-week Agile sprints, ensuring seamless integration of new endpoints and features.
 - Developed backend functionality using PHP, Docker, and AWS S3, incorporating existing PHP libraries for PDF and barcode generation.
 - Built and enhanced frontend components using Vue.js, TypeScript, Twig, HTML, SCSS, and CSS.
 - Delivered team-wide presentations, including a technical overview of Datadog for infrastructure monitoring/logging and a project showcase to over 60 developers.
- Active member of the Web Development and Consulting Club for two years, contributing to collaborative projects and peer-led workshops.
 - Gained hands-on experience with modern web development tools and frameworks, including Git/GitHub, Node.js, JavaScript, TypeScript, Next.js, React, TailwindCSS, CSS, and HTML.
 - Strengthened skills in version control, frontend and backend development, and responsive UI design through team-based development and consulting projects.
- A+ grades in first year Python, second year Java and Object Oriented Programming, second year computer organisation (C) and third-year web development (CSS, HTML, Javascript and C#) courses by the end of my second year.
- Offered a role as a Teacher's Assistant at my university based on high achievement in second year papers during my first year.

Design skills

- Excellence endorsements at levels 1, 2, and 3 in Design and Visual Communication during high school. One mark off of NCEA Scholarship grade.
- Specialised as a front end developer in my WDCC team and throughout internship at Serato due to my strong understanding of composition principles and familiarity with front end web development tools.

Personal Skills

Positivity and resilience when faced with a challenge

- Competitive swimmer throughout high school with training totalling 20-25 hours per week. My positive attitude and go-getter personality led to being awarded the Character Award within a few months of moving to my new swimming club. National Champion of 2021 Epic Epic (17.5km open water swimming race).
- Regular attendee at my university gym's group fitness classes. My positivity and consistency has led to being invited to become an instructor.

Leadership

- Head Student, Hillcrest High School, 2022
- Events Coordinator, Women in Computer Science, University of Auckland, 2024-2025

Communication Skills

- Public speaking at events to a large number of attendees as both a Head Student and Events Coordinator for Women in Computer Science. Commended on my presentation skills by senior staff members at Serato.
- Tutoring experience in Maths and Computer Science at high school, my university hall, and as a Teacher's Assistant at the University of Auckland. Breaking down unfamiliar technical concepts to students.
- Three years of experience as a swimming coach. Explaining techniques to children poolside without being able to physically demonstrate them.

Project Experience

Personal Website (ongoing) - building a front-end heavy website to display my portfolio as a software developer.

Web Development and Consulting Club - Member of the 2024 WDCC (Web Development and Consulting Club) Younite and 2025 University of Auckland Student Chamber Orchestra teams, as a student web developer.

Specialising in front-end development in Tailwind CSS, I played a pivotal role in making the Younite website dynamic and appealing at all screen sizes. Currently in the first few weeks of a new project developing a website for the University of Auckland Chamber Orchestra.

Virscient Hackathon Parking Monitor - Competed in the 2024 Virscient Hackathon where, along with my team, we developed a Microbit prototype that could monitor and reflect parking availability for the Auckland CBD. Received the award for the Most Technical Project developed within the 8 hour timeframe.

2022 NCEA Scholarship Project - used the Blazor framework to develop a CRUD application for the office building my Dad works at, to track the keys in use. Received a Scholarship award in the 2022 NCEA examinations, and particularly commended for the project's thorough documentation, use of the Agile software development methodology, and design decisions made in the development process.

Waikato Science Fair mental health app - Independently developed a mental health tracking application using MIT App Inventor. Created custom graphics and used version control in the development process. The prototype displayed at the 2021 Waikato Science Fair was awarded 2nd place in the Inventions category.

Interests

Music - Listening to music and going to concerts, DJing (playing at events with friends), and music theory.

Art and crafts - Sewing, crochet, knitting, journalling and nail art. Web design, UI/UX.

Exercise, fitness and wellbeing - Group fitness instructor at my local gym. Former competitive swimmer with emphasis on long-distance open water racing (~8 years).

References available upon request