

# Neil Alombro (he/him)

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## Education

**University of Canterbury** **Christchurch, New Zealand**  
Bachelor of Engineering (Hons) in Software Engineering 2021 – 2025

- **Overall GPA:** 7.19 / 9.00
- **2023 Semester 2 GPA:** 8.50 / 9.00
- Completed Second Year Electrical and Electronic Engineering in 2022 before changing to Software Engineering in 2023.

**Mount Hutt College** **Methven, New Zealand**  
NCEA Level 1, 2, 3 Excellence Endorsements 2014 – 2020

- Dux, Best All Around Boy, Deputy Head Boy, Student Trustee
- NZQA Scholarship Calculus (Top ~3% in New Zealand)
- UC STAR Program - MATH 199

## Technical Skills

**Languages:** Python, Java, Kotlin, JavaScript, TypeScript, SQL, C#, C

**Libraries/Frameworks:** React, Vue, Node.js, .NET, JavaFX, Leaflet, JUnit, Cucumber, ROS

**Other:** HTML, CSS, MySQL, SQLite, Git, Gradle, Bash

## Relevant Work Experience

**Aurecon** **Christchurch, New Zealand**  
Student Consultant Nov 2023 – Feb 2024

- Technologies: C#, JavaScript, TypeScript, React, Vue, D3.js, Speckle
- Worked in a team of software developers that work on internal-facing products such as an internal 'Geometry' library, a script-sharing web application 'Script Library', and an intern-led project based on linear infrastructure design.

**UCVision (Computer Vision Research Group)** **Christchurch, New Zealand**  
Summer Research Assistant Dec 2022 – Feb 2023

- Technologies: Kotlin, XML, Python, OpenCV, ROS
- Developed an Android mobile app for a drone controller to establish communication to a drone's onboard NUC for catkin and branch pruning. In conjunction, a point-based object selection and tracking Python script was also developed.

**University of Canterbury** **Christchurch, New Zealand**  
Tutor Jul 2022 – Present

- Tutoring COSC 131 (Introduction to Programming for Engineers) students to learn how to program in the Python language in 'Peer Assisted Learning Sessions'.

**Kaitaki Ākonga – Service Coordinator** Nov 2021 – Nov 2022

- Part of a team of six leaders of the He Tētēkura Emerging Leaders Scholarship Development Program. Mentored a group of students through their first year of university and organised the service portion of the program.

**AHeadStart Ltd** **Christchurch, New Zealand**  
Tutor Feb 2021 – Feb 2023

- Tutoring secondary school students in NCEA subjects I excelled in within the Math, English, Science, Business, and Technology fields. Also tutored some primary school students in basic literacy and numeracy.

## Projects

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### **Difficulty Coach** **May 2023 - Present**

- TypeScript, Vue, Node.js, MongoDB, Azure, Postman, Swagger
- Self-driven project to create a full-stack application that calculates difficulty scores on given elite gymnastics routines. These difficulty scores are based on the Code of Points and help automate routine creation and analysis compared to the current hand-calculated alternative.
- Currently a work-in-progress with a minimum viable product already deployed.

### **SafeTrip** **Jul 2023 – Oct 2023**

- Java, JavaScript, SQL, JavaFX, Leaflet, JUnit, Cucumber, Checkstyle
- Completed as a team project as part of the course SENG 202. The desktop application uses NZ crash data from Waka Kotahi to create safety-informed journeys and analyses areas through a safety rating and data visualization through data graphing, crash heatmap, and mapping crash locations.

### **assessed** **Oct 2023 – Jan 2024**

- Swift
- Self-driven project to create a macOS app that helps students keep track of their assessment due dates and grades through an assessment calendar and GPA calculator. Applied ‘Norman’s 10 Usability Heuristics’ learned in COSC 368 to make the interface intuitive to use.

## Honours and Awards

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### **University of Canterbury Undergraduate Scholarships** **2021 – 2025**

- Aruhiko – Power Engineering Excellence Trust Undergraduate Scholarship
- Vice Chancellors Excellence Award (Course Taken: TREO 110)
- Gertrude Ardagh Holmes Bursary Fund

### **First Year Scholarships** **2020**

- University of Canterbury Hiranga Scholarship (Academic Excellence)
- University of Canterbury Horomata Scholarship (Emerging Leader)
- University of Canterbury Electric Power Engineering Centre Scholarship
- Rainbow NZ Charitable Trust’s Aurecon Scholarship
- Advance Ashburton’s Glass Family Trust Scholarship
- EA Networks Jubilee Scholarship Award

### **Mount Hutt College – Graduating Prizegiving Awards** **2020**

- Rotary Club of Ashburton and Philip Wareing Ltd Cup for Mount Hutt College Dux
- Board of Trustees’ Best All-Round Boy for Mount Hutt College
- Top Subject Prizes - Accounting, Digital Technologies, Economics, Calculus, Statistics, Physics

## Community Involvement

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### **QCanterbury**

President (2023), Secretary (2022)

### **Student Volunteer Army**

Treasurer (2024), Platoons Leader (2023)

### **High School Leadership**

Deputy Head Boy (2020), Student Trustee (2019), Ashburton Youth Councilor (2018 - 2020)

## Interests

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In my childhood, I represented Mid Canterbury in tennis with competing in inter-regional competitions and competed in national competitions in golf croquet. Currently, I still play tennis both competitively and socially and I have picked up badminton and play at the university’s social club. I am also an avid gymnastics fan.