

Jake van Keulen

jakevk.com | github.com/jakevk | linkedin.com/in/jakevk | jakevankeulen@gmail.com | (+64) 22 384 8516

ABOUT

Software Engineering student at the University of Canterbury, graduating Nov 2025. Passionate about problem solving, algorithms, and learning anything new. Seeking a 2023/24 summer internship to apply my skills, learn from industry professionals, and contribute to real-world projects.

EDUCATION

University of Canterbury Bachelor of Software Engineering with Honours - GPA: 8.07/9	Feb 2022 - Nov 2025
University of Canterbury STAR Program MATH199 Advancing in Mathematical Sciences (Completed in High School) - GPA: 9/9	Feb 2021 - Nov 2021

TECHNICAL SKILLS

Languages: C++, C, Python, Java, JavaScript/TypeScript	Web Technologies: React, Flask, Next.js, HTML/CSS
Other Libraries/Frameworks: Numpy, JavaFX, JUnit, Gradle	Miscellaneous: Git, Linux, Bash, MS Access DB

PROJECTS

Basketball Team Management Game <ul style="list-style-type: none">• GUI desktop application built with Java Swing• Developed in a team, using Git and GitHub for version control and collaboration• Tested code with JUnit5, reaching 99% game logic test coverage• Created documentation with Javadoc, covering 100% of codebase	Java, Swing, JUnit, Javadoc
Orienteering Map Generator <ul style="list-style-type: none">• Web application built with JavaScript and HTML Canvas• Used Perlin Noise to generate randomized terrain, creating unique and realistic maps every time	JavaScript, HTML Canvas, Perlin Noise

COMPETITIVE PROGRAMMING (C++/PYTHON)

NZ Programming Contest	1st tertiary intermediate team for 2023; 3rd overall
ANZAC Programming Contests	1st in New Zealand in ANZAC 4 2022
ICPC	Qualified for 2022 South Pacific Finals
Leetcode Contests	Ranked in top 0.37% of over 400,000 competitors worldwide as of August 2023

EXPERIENCE

Devanner - MoreStaff <ul style="list-style-type: none">• Operated in small teams to efficiently remove hundreds of tons of product from shipping containers• Worked for several companies, including Move Logistics, Independent Fisheries, and Bascik Transport	Nov 2022 - Mar 2023
Physics Tutor - Self Employed <ul style="list-style-type: none">• Planned and conducted weekly tutoring sessions for an NCEA Level 2 Physics Student	Feb 2021 - Dec 2021
Digital Technologies Prefect - Cashmere High School <ul style="list-style-type: none">• Supervised computer labs, assisting students with programming and database development schoolwork	Feb 2021 - Dec 2021

OTHER ACHIEVEMENTS

Discover Citadel Program - Citadel Securities <ul style="list-style-type: none">• Selected as one of 45 students from Asia/Pacific for this event at the Citadel Securities Sydney office• Engaged in talks, panels, and contests focused on software engineering, trading, and quantitative research	Aug 2023
ATCL Clarinet Performance Diploma - Trinity College <ul style="list-style-type: none">• Equivalent in standard to the first year recital of an undergraduate degree	2020

INTERESTS

When I'm not thinking about software, I like to get outside for an adventure, whether it be tramping, rock climbing, or skiing. My favourite activity is bouldering, particularly at Kura Tawhiti/Castle Hill. I enjoy the mental and physical challenge, as well as the social aspect of spending time with friends and attending UC Climbing Club events.