

Jake van Keulen

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ABOUT

Software Engineering student at the University of Canterbury, expecting to graduate in 2025. Team player who is passionate about problem solving, algorithms, and learning anything new. Looking for a summer internship to apply my skills, learn from industry professionals, and contribute to real-world projects.

SKILLS

Languages : C++, Python, Java, JavaScript/TypeScript, HTML/CSS
Frameworks : Flask, Java Swing, JUnit5, React, Next.js

EDUCATION

University of Canterbury <i>Bachelor of Software Engineering with Honors</i>	GPA: A Feb 2022 – Nov 2025
University of Canterbury STAR Program <i>MATH199 Advancing In Mathematical Sciences (Completed in High School)</i>	GPA: A+ Feb 2021 – Nov 2021

PROJECTS

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

EXPERIENCE

Physics Tutor <i>Self Employed</i> <ul style="list-style-type: none">Ran 1 hour tutoring sessions each week for an NCEA Level 2 Physics Student	Feb 2021 – Dec 2021
Digital Technologies Prefect <i>Cashmere High School</i> <ul style="list-style-type: none">Assisted with robotics club and supervised computer labs during lunch hoursHelped younger students with programming and database development schoolwork	Feb 2021 – Dec 2021
Devanner <i>MoreStaff</i> <ul style="list-style-type: none">Operated in small teams to efficiently remove product from shipping containers for several companies	Nov 2022 – Mar 2023

ACHIEVEMENTS

Competitive Programming

- 1st place in New Zealand at the 4th 2022 ANZAC Programming Contest
- Qualified for 2022 ICPC South Pacific Regional Finals
- Ranked top 0.5% globally for LeetCode contests, as of June 2022 (leetcode.com/jakevk)

Music

- Achieved ATCL Diploma of Clarinet Performance in 2020