Jake van Keulen

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ABOUT

Second year software engineering student at the University of Canterbury with a passion for all things programming. Looking for internship opportunities to apply my skills, learn from industry professionals, and contribute to real-world projects.

TECHNICAL SKILLS

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

EDUCATION

University of Canterbury — GPA: A+
Bachelor of Software Engineering with Honors — *Feb 2022 – Nov 2025*

University of Canterbury STAR Program — GPA: A+
MATH199 Advancing In Mathematical Sciences (Completed in High School) — *Feb 2021 – Nov 2021*

PROJECTS

Basketball Team Management Game — Java, Swing, JUnit5, Javadoc

- A GUI desktop application built with Java Swing
- Worked in a team to successfully build the project, using Git and GitHub for version control and collaboration
- Ensured quality and correctness of code with JUnit5 unit testing, reaching 99% game logic test coverage
- Used Javadoc to create documentation, covering 100% of the codebase

MapMixer - Orienteering Map Generator — JavaScript, HTML Canvas, Perlin Noise

- A web application built with plain JavaScript and HTML Canvas
- Used Perlin Noise to generate randomized terrain, creating unique and realistic maps every time

WORK EXPERIENCE

Physics Tutoring — Feb 2021 – Dec 2021
Self Employed

- Ran 1 hour tutoring sessions each week for an NCEA Level 2 Physics Student

Container Devanning — Nov 2022 – Mar 2023
MoreStaff

- 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

Freight Sorting — Aug 2021 – Aug 2022
NZ Post

- Used NZ Post's address zoning system to manually sort high volumes of incoming and outgoing packages

ACHIEVEMENTS

- 2022 - Qualified for ICPC South Pacific Regional Finals
- 2022 - Placed 1st in NZ at the 4th ANZAC Programming Contest
- 2020 - Achieved an ATCL Diploma of Clarinet Performance