garth**wales**

Computer Science Graduate

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Dunedin, New Zealand

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Garth Wales
GenericPath

programming
in order of experience

C, Java, Python
C# (Unity), JavaScript
Kotlin, CSS & HTML
C++, LaTeX
MATLAB, R

tools
Git, Bash, docker
Windows, Linux, macOS

education

2018–2020	**Bachelor of Science** (New Frontiers Scholarship)	*University of Otago*
	Major in Computer Science	
	Minor in Mathematics	
2013–2017	**Otago Boys High School**	
	Excellence endorsed at Level 1, 2 and 3	

experience

2nd Semester 2020 · **COSC242 Lab Demonstrator** (C programming) · *University of Otago*

Answered any C related questions, debugged C code and marked tests.

Helped students to understand memory allocation, pointers and dynamic data structures such as red-black trees and hash tables.

1st Semester 2020 · **COSC241 Lab Demonstrator** (Java programming) · *University of Otago*

Helped teach students recursion, inheritance and different sorting approaches in Java.

Good debugging practice and experience explaining code to others.

Each Summer 2017–2020 · **Seasonal Farm Hand** · *Southern View Dairies*

Self-managed tasks such as weed management, milking, tractor work and maintenance jobs.

Key to be hard working and have perfect time management as tasks must be juggled throughout the day.

projects

2020 · **OpenOtago** (Kotlin) · *COSC345, Software Engineering*

Created an android replacement to the Univeristy of Otago's online resources. Features full continuous integration with build, testing (including integration tests) and deployment all being automated. We also used codacy to maintain code quality and codecov to highlight test coverage.

Summer School 2020 · **Villainy** (C# / Unity) · *COSC360, Game Design*

In a team of four, created a reverse tower defense game in 6 weeks. My role was lead programmer and lead designer. I undertook the development of game flow, UI programming and a modular level system. I also integrated each of the components produced by the other students. I am quite pleased with how this turned out, the balance of each level turned out as planned.

interests

personal: skiing and mountain biking