

Michael Rausch

A Computer Science graduate looking for a full-time position as a graduate software engineer.

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EDUCATION

University of Canterbury — *B.Sc. Computer Science*

JULY 2015 - JULY 2018

Relevant Courses: Web Computing Architectures, Data and Network Security, Software Engineering (I, II and III), Internet Technology and Engineering, Relational Database Systems.

University of Canterbury — *Certificate In University Preparation*

JANUARY 2015 - JUNE 2015

SKILLS / EXPERIENCE

Team Skills

- Worked in a team of eight people over the course of a year to build a Java-based game.
- Provided regular written feedback to other team members.
- Helped manage conflicts among team members.

Software Development

- Designed and built a Kickstarter-like crowdfunding website using modern web technologies such as NodeJS, Angular 2 and MySQL.
- Designed and built a website to showcase my work, and to provide potential employers with a way to contact me. Technologies such as Angular 5, HTML5, and CSS3 were used to create the website. Kotlin and Spring Framework were used to provide contact form functionality.
- Created a 3D multiplayer sailing game using Java with a team of software engineering students during a full year project course.
 - Adopted Agile software development practices.
 - Utilised source control and continuous integration tools.
 - Implemented the Americas Cup Streaming Data Interface to view live race visualisations from the 2017 Americas Cup. This protocol was later extended to add functionality such as real-time chat, and multiplayer game controls.

Server Management

- Deployed web applications behind NGiNX on servers running Debian. This involved configuring NGiNX as a reverse proxy with load balancing, setting up SSL certificates, and enabling caching to increase performance.

- Hardened Debian servers against threats by configuring software such as Tripwire, and the firewall. Security audits were regularly completed using OpenVAS.

KEY SKILLS

Proficient Using:

Java, C / C++, Python, JavaScript, Git, MySQL, Angular 2+

Have Experience Using:

Swift (Including iOS SDKs), OpenGL, Spring Framework, PHP, Kotlin, Go, Dotnet Core

WORK

Linwood College — Tutor

Teaching senior high school students the basics of the Python programming language, and preparing them for NCEA assessments

MEMBERSHIPS

Associate of the Institute of IT professionals.

Associate of Engineering New Zealand.