

# BEN COTTRELL

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**Website:** <https://www.bgcottrell.com/>

**GitHub:**

<https://github.com/ben-cottrell-nz>

**LinkedIn:**

<https://www.linkedin.com/in/bgcottrell/>

## PERSONAL SUMMARY

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I am someone passionate about software development, learning new subjects along with other interests. Please see my skills below.

## SKILLS

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### 1. Multimedia

- Editing and exporting vector graphics with Inkscape
- 3D modelling and rendering with Blender
- Editing and exporting images from the GIMP
- Composing and editing music with Bitwig Studio

### 2. Software Development

- Making graphical applications using the Qt framework and the CLion IDE with CMake build system
- Cross compiling a C++ application for Microsoft Windows using the MSYS shell, MINGW tools and CMake.
- Shell scripting on Linux and Batch scripting on Microsoft Windows

- Writing graphical and console applications with C#

- Using Docker containers to build a website

### 3. Documentation

- Experience with writing guides for using software

## PROJECTS

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### Audioviz

<https://github.com/ben-cottrell-nz/audioviz>

An application for Windows and Linux which visualizes audio input in different ways.

### Conway's Game of Life in Web Assembly

<https://github.com/ben-cottrell-nz/WASM-GOL>

A simulator written in C++ that uses the same library for desktop operating systems which can also work in a web browser.

### Tuning

<https://github.com/ben-cottrell-nz/tuning>

An instrument tuning application that displays the peak tone as a musical note.

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## WORK EXPERIENCE

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### **Information Management Officer**

*2019, A few months*

Whakatāne District Council, New Zealand

### **Test Writer and Intern**

*2018, one year*

Nyriad Limited

Cambridge, New Zealand

### **Technical Assistant**

*2016, one month*

Lab work and quality assurance. Whakatāne

Mill Limited, New Zealand

## EDUCATION

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### **Red Shirts Customer Service**

### **Qualification, Unit Standards**

The Warehouse, Whakatane

2017

### **Studied Bachelor of Computing and Mathematics Sciences**

The University of Waikato, Hamilton

2016

### **Studied Bachelor of Information Technology**

WINTEC, Hamilton

2015