Experience

- July 2017 Software Developer, Espial, Kirkland, WA.
 - Present At Espial I learned how to effectively develop for embedded linux products. This includes bugfixing, reading and understanding legacy C++, automation, and other duties related to maintaining a large hardware/software product. Later in my time at Espial I also was given the opportunity to work on a large cloud SaaS solution which provided cable operators an interface for managing millions of devices.
- June 2016 Full Stack Web Developer, Intern, Donuts Inc., Bellevue, WA.
- Sept. 2016 At Donuts I learned the basics of how software development worked and how Agile development is applied to get effective solutions. I spent the majority of my time writing multiple micro apps using Googles cloud services and Python.

Education

2012–2017 B.S. in Computer Science, Central Washington University, Ellensburg, WA.

1990's - Self-Taught.

Present I'm a lifelong learner and love all things tech. I program as a hobby, love learning new things, and am always up for a challenge.

Skills & Languages

In depth knowledge / Professional experience.

C++, OpenCL, Python, Linux

Enough to be dangerous.

Java, SQL, Javascript, HTML & CSS, 3D Graphics, Android, Git / Perforce

Passing knowledge, enough to sound dangerous.

AWS, Alexa, AppEngine, Bash, Clang, Flask, GCC, GDB, LaTEX, OpenGL, Unity3D, Windows, Windows Phone, Zune

Great grokker.

In the end, programming is programming, it's all really the same. I take pride in my ability to pick up on new tech / languages extremely quickly, and problem solve my way out of difficult situations. I hope that my portfolio / work experience demonstrates this fact more so than just words can convey.

Portfolio

Volumetric Rendering Engine, *OpenCL*, *C++*, *SFML*, *RayCasting*, *3D Math*.

An experimental "From Scratch" volumetric rendering engine utilizing a voxel dataset organized in a sparse voxel octree, Blinn-Phong lighting, dynamic shadowing, texturing, and reflections, along with a TCP streaming Android controller. Presented at the CWU College Of The Sciences fair.

Conways Game of Life, *OpenCL*, *C++*, *SFML*.

Completely in-core GPU Conways Game of Life simulator and accompanying RLE decoder.

Optimization Algorithms, *C++*, *Computer Science Mathematics*.

Implementation of 15 optimization test suite functions, and 9 popular mathematical optimization algorithms.

Project Euler, *Python, Computer Science Mathematics*. Combinatorics, discrete math, and other logic problems solved using Python.