

# Liam Wynn

Portland, Oregon

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wynnlam.github.io

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**Qualifications** • Used math and theory to derive algorithms that I implemented, tested, and optimized. • Adept at learning new tools, technologies, and paradigms.

## Education

### Portland State University

*B.S., magna cum laude, Computer Science, Mathematics Minor*

Portland, Oregon

2014 - 2019

- GPA: 3.85
- Academic Honors: Dean's List (7 semesters).
- Inducted into Phi Kappa Phi National Honor Society 2018.

## Experience

### Standard Insurance Company

*Software Development Intern*

Portland, Oregon

July 2018 - November 2018

- Worked on the back end of web applications using Java and Springboot.
- Did code reviews, unit testing, and agile/scrum software development.
- Worked with several other teams to complete projects.

### Portland State University, Portland

*Computer Science Tutor*

Portland, Oregon

April 2016 - August 2019

- Assisted lower division Computer Science students with their course work and development endeavors.
- Helped students with problems that ranged from systems programming to rudimentary logic and discrete mathematics.

## Projects

### Raycore - C

April 2018 - Present

A game engine built around ray casting which is a technique for rendering pseudo-3D environments. Rendering uses several numerical approximations and low-level optimizations to improve runtime efficiency.

### Texture Generator - Python, Tensorflow

November 2018 - Present

Employed a variational autoencoder to generate texture images. Both the encoder network uses a convolution layers with leaky ReLU activation. The decoder uses transposed convolution layers

with leaky ReLU activation. Uses the Adam Optimizer algorithm to train.

### **VA Audiology Web App** - *Typescript, Node.js, SQL*

January 2019 - June 2019

For my senior capstone project, I worked with a team to add a back end to an existing application for the VA. This included a SQL database, a Node.js backend, and rewriting several parts of the existing front end to utilize the latter two systems.

## **Technical Skills**

C, C++, C#, Python, Java, Javascript, SQL, x86-64 Assembly, Haskell

GNU/Linux, Vim, GDB, Valgrind, Tensorflow, NumPy, OpenGL, SDL, jQuery, Node.js