

# Joseph Krusling

Public version of resume.  
Contact information omitted.  
Please email to get full-form resume.

Phone: \*\*\*-\*\*\*-\*\*\*\*  
E-Mail: [Joseph@Krusling.net](mailto:Joseph@Krusling.net)  
Website: [www.JosephKrusling.com](http://www.JosephKrusling.com)

## Education

### **Bachelor of Science in Computer Science**

**Class of 2020**

University of Cincinnati

**3.6 GPA**

Studying intermediate and advanced computer science concepts including data structures, computer architecture, discrete structures and programming languages.

### **Post Secondary Enrollment (PSEOP)**

**Class of 2015**

UC Clermont College, Ohio Virtual Academy

**3.7 GPA**

Completed college level courses for simultaneous college and high school graduation credit. Studied introductory and intermediate topics in math, chemistry, physics, calculus, history and English.

## Technical Skills

### **Languages**

Proficient: Java, Python

Exposure: C/C++, x86 Assembly, C#, PHP, JavaScript, GLSL, Lua

### **Software and Technologies**

IntelliJ, PhpStorm, Visual Studio, Mathematica, MATLAB, Git, MySQL, Amazon EC2 and S3

## Personal Projects

### **Settlers of Catan Implementation**

**2016 – 2017**

Implemented popular multiplayer board game in Python using Twisted for client-server network communication. Designed flexible layout system for rendering UI elements using PyGame.

### **Gameplay Automation Tool for MMORPG**

**2015 – 2016**

Designed custom Java game client to extract data from the game using bytecode manipulation. Automated gameplay via simulated mouse and keyboard events. Disclosed research to game developers to help improve their bot and cheat detection strategies.

### **Efficient Ray Tracer**

**2014 – 2015**

Created voxel ray tracer that renders high resolution scenes in real time using Java, GLSL and LWJGL. Developed strategy for efficiently storing and traversing scene geometry in parallel on the GPU.

## Activities

### **Game Addon Development**

**2016 – 2017**

Wrote and packaged Lua scripts for World of Warcraft to enhance and streamline the user interface.

### **Freelance Web Design**

**2016**

Designed and hosted interactive websites for local clients using HTML, JavaScript, CSS and PHP.

**Available for co-op during Summer or Fall 2017**