Matthew Krebs

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**Experience**

**Hackathon: HACKCU IV**

My project was done using C# and Unity. We used an Oculus Rift and a Leap Motion controller. We integrated these two pieces of hardware together to create a virtual piano. The Oculus Rift was used for the Virtual Reality experience while we used the infrared camera in the Leap Motion controller to track individual digits on your hands to give the feeling of realism. Through C# scripts we could create an interactive piano. We also added the ability to read in a CSV file containing different songs. This allows a user to use custom songs and to be able to teach someone how to play the piano. Each key has the correct audio when you press it. Through this experience I learned that you can learn something new and implement it all in a 24-hour period with the help of your teammates.

**Intern at Los Alamos National Laboratory January 2018- May 2018**

Working with the Microsoft HoloLens to build a Smart Nuclear Infrastructure to help with glovebox safety in the future.

* Working on a team of five people and we are continuing a large project started last year.
* Creating API's to help integrate modules that I create.
  + One module includes File IO and the HoloLens Camera to help document material for safety
  + -A few other modules
* Created a network between HoloLens which involves sending byte messages
* Currently working on a module to track materials and run criticality software to determine infractions.
* Just completed a small project that takes 25,000 points taken from a silicon retina and rendered a 3d model of the points to help visualize the data.
* Awaiting on approval for a paper involving infrastructure.
* All of these projects were created using Unity and programmed in C#.
* Developing Smart Nuclear Infrastructure
* Work in a team environment
* Use HoloLens and Toolkit
* C# & Unity

**Systems Sales Associate, Micro Center, Westmont, Illinois May 2016 – Dec. 2017**

* Assist customer in Systems Department
* Find laptops, desktops, television to fit customer’s needs

**Education**

**College of DuPage, Glen Ellyn, Illinois 2013-Current**

Currently pursuing a Bachelor’s Degree in Computer Information Systems and will transfer to Lewis University’s Computer Science program as part of the COD 3+1 program in the Fall of 2018. I have achieved Academic Honors.

**Courses**

-Programming Logic and Technique (Python)

-C++ Language Programming

-Advanced C++ Programming and Data Structures

-HTML & CSS

-Advanced HTML and JavaScript

-Intro to Networking

-Windows Command Line

-Introduction to Linux/Unix OS

-Computer Repair

-Intro System Analysis & Design

-Database Management

-Office Suite Software Integration