Daniel Williams

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Objective:

To obtain a position as a software engineer, where I can use my skill set and knowledge to learn and grow as a software developer.

Education:

The Pennsylvania State University, State College, PA
Graduated: August 2021 Dean's List (Fall 2018, Spring 2019)
B.S in Computer Science Cumulative GPA: 3.2
Minor: Mathematics

Class Related Project Experience:

Reaction Time Instrument and Software interface – Lead Developer: December 2020
-Worked as a team to develop a reaction time instrument and interface for our sponsor ARRCA Inc.
-Oversaw the software interface development.
-Refactored and revised the project during development after receiving input from our sponsor.
-(Languages: C++, Java)

LionCloud Project: March 2020
-Designed driver code that mimicked reading and writing to a cloud server and main memory.
-Increased efficiency by implementing a least recently used cache.
-(Languages: C)

Uni-Core CPU Pipelining: July 2020
-Implemented the five stages of pipelining a CPU.
-(Instruction Fetch, Instruction Decode, Instruction Execute, Memory Access, Write Back)
-Utilized the hardware description language Verilog over a field programmable gate array.
-(Languages: Verilog)

Personal Project Experience:

Java Plugin Development: Current
-Designed many Minecraft plugins for my personal Java Minecraft Server.
-Integrated an SQL (and H2) database into many plugins for safer data storage, and less resource intensive data queries.
-(Languages: Java, SQL)

Website Development: June 2020
-Created a website using HTML 5, CSS, and JavaScript to present users with useful and interactive experience.
-Implemented a forum using PHP connected to a SQL database, for better user interaction.
-(Languages: HTML , CSS, JS, SQL, PHP)

Two Player Chess: March 2018
-Developed fully functional Chess game in C++ as a command prompt application.
-Applied fundamental aspects of the C++ language.
-Utilized object orientated programming, abstraction, and abstract data types to create flexible and versatile code.
-(Languages: C++)

Extra-Curricular Activities:

Boulevard – Community Service Organization: September 2020

Penn State Wilkes-Barre Benefiting THON – Fundraising Organization for THON: August 2017