

Jeffrey Osazuwa

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Education

University of Maryland Baltimore County

BACHELORS OF SCIENCE IN COMPUTER ENGINEERING | ELECTRONICS TRACK

Baltimore, Maryland

August 2013 - May 2018

Skills

Languages

SCHOOL AND SELF TAUGHT

- Back End - Java, Python, C/C++
- Front End - JavaScript, CSS/HTML
- Data Analysis - SQL/MySQL

Relevant Classes

COMPUTER SCIENCE & ENGINEERING

- Object-Oriented Design, Operating Systems, Data Structures, Algorithms, Embedded Systems, Discrete Structures, VHDL/FPGA Design

Experience

Quality Oriented Solutions Inc. Software Engineering Internship

SQL AND MYSQL

- Gathered customer data using SQL, data included names, emails and phone numbers.
- Submitted SQL queries into MySQL database to keep track of all customer data.

Projects

Galois Field Arithmetic Unit

VHDL AND PYTHON

- Led a capstone team to design a scalable arithmetic logic unit capable of generating Galois terms for low powered microcontrollers.
- Operations were completed using multiple VHDL modules as well as transferring the data onto a memory chip.
- Created Python scripts in order to have test inputs and outputs for verification purposes.
- Used incremental design on Git/GitHub in order to provide code review and code revision in an agile and scrum environment.

Operating Systems

C

- Project 1 - Creation of a skiplist data structure using system calls within the linux kernel to perform Inter-Process Communication.
- Managed memory using a FIFO queue within the skiplist to store messages the user chooses within kernel memory.
- Project 2 - Creation of a simple intrusion detection system within the linux kernel using system calls.
- Logging of system calls used in order to determine whether or not the system calls used are typical for the process that is running. Hamming distance is calculated in order to find the result.

Oregon Trail

C AND C++

- Creation of an imitation of the popular Oregon Trail game in text form.
- User input decides which direction the character goes in the game, input is then parsed and compared.
- A separate text input file is used as the map. The map is an MxN square which will have obstacles, food left, and size of map.
- Program prints current map to screen in a loop until the win or loss condition is met.

Page Scraper

JAVASCRIPT, HTML AND CSS

- Creation of a simple web scraper to get all images from a desired web page and saves them in a list.
- Program will request the web page that is needed and accesses the HTML on the given page.
- Content should be search-able in the list provided allowing for easy access to the scraped content.