

Alexander Lambert

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OBJECTIVES

Interested in applying and growing my skills in Software Design, Web Development, and/or Algorithmic Engineering.

EDUCATION

MICHIGAN STATE UNIVERSITY

Expected May-2017

Major: Computer Science.

GPA:3.9

LIVONIA STEVENSON HIGH SCHOOL

August 2009-June 2013

Graduated Summa Cum Laude

EXPERIENCE

Sparrow Hospital IT

East Lansing, MI

January 2016-Present

App Developer Intern/ Backend Design

- Created an Emitter in C# to convert SQL queries to new databases autonomously.
- Created a Deserializer to translate XML responses to C# and transferred to custom made SQL tables.

Digital Evolution Research

East Lansing, MI

October 2016-Present

Markov Brains/ Evolutionary Neural Networks

- Added a feature Snapshot Learn to allow Neural Net to re-use knowledge from previous simulations.
- Created C++ worlds and Fitness Functions to gain data to Biological Research with Python Numpy.

Schoolcraft Campus

Livonia, MI

August 2015, August 2016

Teacher for Kids on Campus Program

- Taught Web Design and Animation to 5th and 6th graders using Html, Adobe Flash, Weebly, and PowToon.
- Designed and taught Syllabus of custom made lesson plans.

SpartaHacks 2016

East Lansing, MI

February 2016

Client and Server Side Web Development

- Designed an app that searches thru a user's pictures on Facebook and identifies inappropriate images for deletion.
- Worked with multiple APIs including Clarifai, Firebase and JavaScript to make it functional and accurate.

MHacks 2015

Ann Arbor, MI

September 2015

Evolutionary Neural Networks

- Created a genetic evolution program that learned how to beat a videogame over generation species using Lua.
- Reversed engineered a NES game to find the proper Hex values using RAM Search and Hex Editor.

SpartaHacks 2015

East Lansing, MI

March 2015

Software Design

- Designed a virtual tutorial using an arm to control the mouse with the Myo using Lua and Game Maker.
- Collaborated as a team using multiple programming languages to produce one final product.

CoRe Peer Leader

East Lansing, MI

August 2014 – May 2015

Student Mentor

- Collaborated with corporate sponsors to provide students with lab tours and field trips.

Acme Mills

Bloomfield Hills, MI

June 2011 – September 2012

Marketing/Accounting

- Created Visual Basic macro to automate the identifying and merging of duplicate records to save time.
- Eliminated Paper documents and converted daily banking reconciliations to electronic analysis.

SKILLS

Fluent in C++, Python, PHP, LESS, C#, and SQL
Familiar with Flex/Bison, Lua, and Bash

Proficient in server-side development and algorithms
Knowledgeable in JQuery, SaS, and Java

ACTIVITIES

ACM and Spartan Hackers Member

Web Contracting for Mason Expo

Programmed multiple computer games using Game Maker

Lead the redevelopment of the high school greenhouse

Participated in IM Soccer, Volleyball, and Water Polo

Ran a Running Club fundraiser that raised over 250 dollars

HONORS AND AWARDS

Dean's List(MSU)

Top Ten SpartaHacks 2016

National Honors Society

AP Scholar Award

Henry Hedges Endowed Scholarship Fund

Raymond Newman Engineering Scholarship