Victory Omole

https://github.com/vtomole

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OBJECTIVE

Seeking an intership or co-op that will allow me to take full advantage of my passion and experience in Software Engineering.

EDUCATION

Iowa State University

Ames, IA

Bachelor of Science, Computer Engineering

Expected graduation: May 2018

Honor

Iowa State Deans List, Spring 2017.

Projects

qc-hack-harvard

https://github.com/vtomole/qc-hack-harvard

Visualizing quantum computing algorithms in the browser

October 2017 - Present

- o Virtual machine: Implemented a virtual machine in Python to execute Quantum Algorithms for the frontend.
- Hack Harvard: Won the Hacker Prize (Sharing information openly; doing something for its own sake; finding creative solutions to problems.) at Hack Harvard.

C48

https://github.com/vtomole/c48

A Modern Scalable Programming Language

September 2017 - Present

- Parser: Implemented a parser that can parse arithmetic expressions and build an abstract syntax tree out of these expressions.
- **Intepreter**: Implemented an interreter that can walk the absract syntax tree and apply function operators to it's arguments.

Evie

https://github.com/vtomole/evie

A Programming Language Playground

September 2016 - Present

- Cantor: Wrote a programming language inspired by Set Theory that won a prize for "Most interesting project" in a Fall 2016 Hackathon.
- Shell: Implemented a Shell interreter that is capable of executing Linux shell commands.
- Kiana: Wrote a virtual machine that is capable of interpreting an assembly language.

Victorys AI Playground

https://github.com/vtomole/victorysaiplayground

Documenting my education on Machine Learning

May 2016 - August 2016

- **AIPlayground**: Programmed basic neural networks in Jupyter Notebook, then trained these neural networks on a GPU.
- $\circ \ \mathbf{Blog} \text{: Implemented in Django and deployed using Heroku: } \ \text{https://victorysaiplayground.herokuapp.com/}$

Programming Skills

Skilled: Java, C, Quantum Computing, Common Lisp, Scheme

Experienced: Python, Linux, Git, BASH, Emacs, HTML

Basic competancy: Javascript, PHP, C++, Ruby

EXPERIENCE

Iowa State Academic Success Center

Ames, IA

Tutor

September 2017 - Present

• Tasks: I help students understand the material that is taught in the "Theoretical Foundations in Computer Engineering" class. I am also tutoring a "MultiVariable Calculus" class.

Writing

Architecture for a trapped ion quantum computer https://vtomole.github.io/static/microwave-arch.pdf