Jacob Bovee

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Employment

Student Trainee (Mathematics) - intern NIST

June 2016 - August 2016

- Developed software module in C++ to streamline configuration process in Linux environment
- Modified existing software functions, and designed new features, to implement mathematical techniques, models, and data sets into network simulations for later analysis
- Wrote Python scripts to compile and parse webpage data into PostgreSQL database

Computer Support Technician

Norwich University

August 2013 - May 2015

• Supported end-user hardware and software; troubleshooting on Windows, OSX, and Linux

Education

B.Sc. Computer Science, Norwich University, VT (summa cum laude)

Dec 2016

- Minors in Mathematics and Engineering Science (Electrical Engineering)
- National Science Foundation CyberCorps: Scholarship for Service recipient
- GPA 3.78; Dean's List or University Scholar every semester

Technical Experience

Window Swapper, Google Chrome Extension

October 2017 - November 2017

see github.com/jbovee/window-swapper

• Designed and wrote Chrome extension to swap the position of two windows (JS/HTML/CSS)

Jeopardy Data Visualization

April 2017 - August 2017

see github.com/jbovee/jeopardy-d3js, /j-archive-parser

- Wrote Python script to parse Jeopardy game info from j-archive.com and store as CSV files
- Created multiple visualizations using D3js/HTML/CSS (see jbovee.github.io/jeopardy-d3js)

Genetic Programming Research Thesis

Spring 2016 - Fall 2016

see github.com/jbovee/rubiks-revenge-py

- Designed and created Python class to simulate a 4x4x4 Rubik's cube and its moves
- Implemented DEAP genetic programming library with cube class and functions
- Designed and tested numerous algorithms to evaluate cube completeness

Super Bowl 50 Technical Team Assistant Lead

Fall 2015 - Spring 2016

- Created custom processor in Java to parse and reorganize incoming data into JSON format
- Installed and managed Elasticsearch/Kibana instance with millions of unique data documents
- Collaborated with Levi's Stadium IT and law enforcement to support live event cybersecurity, using custom tools to monitor, evaluate, and capture data for analysis

Software Engineering

Course Group Project

Fall 2015

• Worked with team to design and create emergency contacting application using Android Studio

Languages and Technologies

- Proficient: Python; C++ Familiar: JavaScript; Java; HTML/CSS; SQL; MATLAB
- Git; Flask; Elasticsearch; Wireshark; MongoDB; D3js; JSON; Regular Expressions

Leadership and Honors

- Eagle Scout Project: Designed and managed addition of a natural playground to local park
- **Upsilon Pi Epsilon** Honor Society