github.com/jbovee linkedin.com/in/jacob-bovee

# Jacob Bovee

Essex, VT (802) 324-6913 jacob.r.bovee@gmail.com

# **Employment**

## Research Engineer, Pathways Program 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 webpage data into SQL database

# Computer Support Technician Norwich University August 2013 - May 2015

- Supported end-user hardware and software for faculty, students, and staff
- Worked independently on Windows, Mac, and Linux laptop and desktop machines

#### Education

## Northfield, VT

**Norwich University** 

Fall 2013 - December 2016

- Bachelor of Science in Computer Science, December 2016. GPA: 3.78
- Minors in Mathematics and Engineering Science (Electrical Engineering)
- National Science Foundation CyberCorps: Scholarship for Service

# **Technical Experience**

# **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 Apache Nifi module in Java to parse and reorganize incoming data into JSON format
- Installed and managed Elasticsearch/Kibana instance with millions of unique data documents
- Went with team to California to work with Stadium cybersecurity, monitor live event data using software and created tools, and compile findings for later deeper analysis

### **Software Engineering**

### **Course Group Project**

Fall 2015

Worked with team to design and create emergency contacting browser application for Android

## **Asst. System Administrator**

**NUCACDF** 

Fall 2014 - Spring 2015

Deployed and managed virtual machines for university classes using vSphere

# Languages and Technologies

- **Proficient:** Python; C++; Java **Familiar:** SQL; HTML/CSS; Matlab; LaTeX; Shell
- DEAP; Git; Apache Nifi; Elasticsearch; Kibana; Mathematica; JSON; Wireshark; MongoDB

# **Leadership and Honors**

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