

## 9129 Main St, Westernville NY 13486

□+1-315-532-0278 | 
| jeffrey.p.hafner@gmail.com | #jphafner.github.io | injphafner | injphafne

# **Unix Engineer | Physicist, Computer Scientist**

Innovative and driven IT professional with demonstrated success in maintaining technology, understanding client requirements and developing effective solutions, supporting a wide range of business applications. Highly skilled in installing, diagnosing, repairing maintaining and upgrading hardware and software. Able to troubleshoot problems on site or remotely, resolve user and system problems, and develop training to address knowledge gaps. Experience complimented by Ph.D. in Physics.

Technical Portfolio: C, R, and Python, Scheme, Lua, Bash, Perl, Fortran, C++, MT-X.

# **Experience**

### **Unix Linux Systems Engineer**

New York, NY Aug 2016-Mar 2018

**IPSOFT INC** 

- Manage IT infrastructure of high profile clients.
- Monitored client environments and developed automation to resolve issue.
- · Provided automaton to clients using Ansible, for example patching.
- Most utilized VMWare, I have experience using VMWare.
- Had commendable communication with key clients, McKesson.
- Managed Unix/Linux hosts everyday.
- · Diagnosed issues with Unix/Linux.
- Used scripting languages, Python and Bash.
- · RHCSA certification was used often on this job.

Research Assistant

Buffalo, NY

University at Buffalo Aug 2008–Dec 2011

- · Produced three peer reviewed publications, with one selected for conference presentation, and one chosen as an editor's pick.
- All resources used were an HPC environment hosted at the Center for Computational Research at Buffalo.
- Several hundred jobs were run on the HPC environment.
- All code was written by me, so all debugging was done by me.
- I took a HPC course, and got an A.

### Volunteer\_

### **Physics Graduate Student Association Senator**

Buffalo, N\

Aug 2008-Dec 2011

University at Buffalo

- Spent three years maintaining and starting the graduate student computer lab.
- It involved OpenLDAP, OpenAFS, Kerberos, and Python to bind things together.
- I was also in charge of the department webserver

# **Education & certifications**

University at Buffalo Buffalo Buffalo, NY

Ph.D in Physics Aug. 2006 – Feb. 2012

Andrews University

Berrien Springs, MI

B.S./M.S. IN BIOPHYSICS AND MATHEMATICAL STUDIES Aug. 2001 – Aug. 2006

2016 Red Hat Certified System Administrator, License 130-172-497

2016 Cisco Certified Entry Networking Technician, License CSC012981391

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FEBRUARY 4, 2019 JEFFREY P. HAFNER RÉSUMÉ

**Projects** 

#### PHY506: Computational Physics 2

Buffalo, NY

UNIVERSITY AT BUFFALO

Spring 2008

Implemented a cellular automata traffic modeler in Python to investigate phase transitions in traffic

### **PHY515: High Performance Computing 1**

Ruffalo NY

University at Buffalo

Fall 2008

Parallelized my dissertation utilizing ScaLAPACK.

#### PHY551: Grad Physics Laboratory 1

Buffalo, NY

University at Buffalo

Fall 2007

- Created Josephson junctions for use in super conductive conditions
- Utilized a Scanning Tunneling Microscope to investigate surface electron structure

#### **CSE536: Computational Biology**

Buffalo, NY

University at Buffalo

Fall 2011

Implemented a 2D Hydrophobic-Hydrophilic Protein folder utilizing an Ant Colony Optimization Algorithm in Python.

## **Doctoral Dissertation**

Buffalo, NY

University at Buffalo 2008–2011

- titled: Validation and Refinement of Course Grained Protein Models
- About a 100 pages of text, Over 5000 lines of C, and over 1000 lines of Python.
- Work was performed on the computing resources of UB Center for Computational Research

 Physics AMC
 Physics Teacher

 Physics Teacher
 multiple locations

2014-2016

- A comprehensive physics exam bank that utilizes an lpeg parser for question selection.
- This project enabled me to use an infinite redo policy on all assessments, without punishment, which was an important motivation for this project, and created some of my favorite memories.
- this project utilizes LTFX, lua, lpeg, and tikz for graphics, and contains more than a 100,000 lines of code.
- · sample-exam

# **Publications**