Jeffrey **Hafner**

Physicist

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"Before you leave the house, look in the mirror and take one thing off."–Coco

Summary

I am a geek, a skeptic and I wear bowties for fun.

Education

Andrews University — *Berrien Springs, MI*

B.S./M.S. in Biophysics and Mathematical Studies — *Aug. 2001 – Aug. 2006*

3.31 GPA

University at Buffalo — *Buffalo, NY*

Ph.D in Physics — *Aug. 2006 – Feb. 2012*

3.50 GPA

Experience

Flying Moose Lodge — *East Orland, ME*

Wilderness Guide and Camp Counselor — *2005*

Was responsible for takings boys, aged 8–16, on 10 day excursions throughout the state of Maine.

Buffalo, NY — *2008–2011*

Research Assistant — *University at Buffalo*

Produced three peer reviewed publications.

Baltimore, MD — *2012*

Postdoctoral — *University of Maryland*

Implementation of Particle Mesh Ewald Electrostatics for Continuous Constant pH Molecular Dynamics in CHARMMM.

Towson, MD — *2013-2014*

Adjunct Physics Professor — *Towson University*

Teaching Light and Color, an introductory physics course.

Baltimore, MD — *2014–2015*

Physics Teacher — *Baltimore City Public Schools*

Teaching physics first at Mervo

Dobbs Ferry, NY — *2015–2016*

Physics Teacher — *Masters School*

Teaching 11^{11} and AP Physics B Mechanics

Manhattan, NY — *2016–Current*

Unix/Automation Engineer — *IPsoft Inc*

Provide Unix related automation to clients through an ITIL framework utilizing Ansible and IPautomatas.

Projects

0.1 Courses

Penn State University — *University Park, PA*

NSF REU — *Summer 2004*

Implemented a monte carlo modeler in Matlab to model kinesin processivity under William Hancock.

Andrews University *Berrien Springs, MI*

PHY447: Advanced Lab 2 *Spring 2005*

Validated predicted reverberation times based on blue prints of the Howard Performing arts center

University at Buffalo *Buffalo, NY*

PHY506: Computational Physics 2 *Spring 2008*

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

University at Buffalo *Buffalo, NY*

PHY515: High Performance Computing 1 *Fall 2008*

Parallelized my dissertation utilizing ScaLAPACK.

University at Buffalo *Buffalo, NY*

CSE536: Computational Biology *Fall 2011*

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

University at Buffalo *Buffalo, NY*

Doctoral Dissertation titled: *Validation and Refinement of Course Grained Protein Models* *2008–2011*

- 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

0.2 Vocational

physicsAMC *PhysicsAMC*

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 LaTeX, lua, lpeg, and tikz for graphics, and contains more than a 100,000 lines of code.
- sample-exam

Awards and Certifications

2013–2014 **Intramural Champion**, University of Maryland *Baltimore, MD*

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

2016 **Cisco Certified Entry Networking Technician**, License CSCO12981391 *CCENT*

IPsoft 2017 Performance Review

Customer Satisfaction: One drop for McKesson and 4 Merits overall in 2017. Not perfect, but not bad at all. Always aim to keep our clients happy and go that extra mile.

Innovation: You've put in significant effort into creating and optimizing automation. Fantastic! It shows great initiative that exceeds most of the rest of your teammates'.

Overall:

Jeffrey,

I know working 3rd shift presents a great challenge in keeping in touch with the vibe and camaraderie of the rest of the team, but you've handled it well. You have done an admirable job working with the BLR team and Keith given the challenges; especially that this is your first real job in the field. Your communication efforts with McKesson in particular are commendable.

For the year ahead, I think you know what the primary area of improvement needs to be: Ticket Handling. Remember: Response times are important, but so are resolution times and diligent follow-up. You cannot let tickets linger for weeks or longer in your queue. Push to close them ASAP relevant to priority and provide periodic updates so the client knows issues are not being ignored. Additionally, please ensure to keep your station tidy. These are shared spaces so everyone is expected to clean up after themselves.

I see 2018 as a year of tremendous opportunity for you here. The minutia of your job requirements should not hold you back from excelling in a purely technical role. Correct those issues promptly then put in the effort to increase your technical expertise. Add in initiative to create more automation and create value for our clients and you will be on the fast track to a TL or TE role, or beyond. Here's looking forward to accelerated growth and evolving in the year ahead!

-Brian