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

#### FLYING MOOSE LODGE 2005 Was responsible for takings boys, aged 8-16, on 10 day excursions throughout the state of Maine. **Research Assistant** Buffalo, NY UNIVERSITY AT BUFFALO 2008-2011 • Produced three peer reviewed publications, and was chosen for one conference presentation. · One publication was chosen as an editor's pick **Postdoctoral** Baltimore, MD University of Maryland 2012 Implementation of Particle Mesh Ewald Electrostatics for Continuous Constant pH Molecular Dynamics in CHARMMM. **Adjunct Physics Professor** Towson, MD TOWSON UNIVERSITY 2013-2014 Teaching Light and Color, a non-major physics course **Physics Teacher** Baltimore, MD **BALTIMORE CITY PUBLIC SCHOOLS** 2014-2015 Teaching physics first at Mervo · Utilized a unique assessment system that allowed infinite redos • Yes, I am the guy in the video **Physics Teacher** Dobbs Ferry, NY MASTERS SCHOOL 2015-2016

#### **Unix/Automation Engineer**

Teaching 11<sup>th</sup> and AP Physics B Mechanics

• An example lesson plan and lab report template used

**Experience** 

**Wilderness Guide and Camp Counselor** 

Manhattan, NY 2016-Current

East Orland, ME

IPsoft Inc

• provided automation for clients "that exceeds most of the rest of your teammates".

- My communication with key clients was described as "commendable".
- Utilized Ansible and IPautomatas to provide unix automation.

· Utilized a unique assessment system that allowed infinite redos

## 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 Buffalo

**PH.D IN PHYSICS**Aug. 2006 – Feb. 2012

3.50 GPA

# Projects\_\_\_\_\_

NSF REU University Park, PA

Penn State University Summer 2004

Implemented a monte carlo modeler in Matlab to make falsifiable predictions concerning kinesin processivity under William Hancock.

PHY447: Advanced Lab 2

Berrien Springs, MI

Andrews University Spring 2005

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

PHY506: Computational Physics 2

University at Buffalo Spring 2008

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

PHY515: High Performance Computing 1

Buffalo, 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

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 ET<sub>F</sub>X, 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

Buffalo, NY

2016 Cisco Certified Entry Networking Technician, License CSCO12981391

CCEN7

## **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