Philip DiPaula

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PROFESSIONAL SUMMARY

I love STEM because it is awe-inspiring. The secrets of how the universe works and how we can make it work for us feed my constant curiosity. When I first started at UMBC I remained undeclared until my 3rd semester because I had difficulty deciding which path to take. I decided that I didn't want to decide, and so chose to take as many interesting and thought-provoking courses as I could. After graduation I found employment at a pharmacy because I enjoy helping people and I was considering becoming a pharmacist. In my time there I've learned a lot, but determined it is no longer the career path I wish to take.

Programming has been something that has fascinated me from the first time I printed "Hello World." With my free time I've found myself tinkering with various programming projects that have consumed my attention for days, weeks, or even months at a time. I have been refreshing and building upon the basic programming skills that I developed at UMBC. I have a particular interest in blockchain technology, as I believe decentralization will play a huge role in shaping the future for the betterment of mankind. Now I'm looking to change career paths and join the burgeoning tech field. I began a full-stack web development bootcamp at OSU in the hopes of expanding my knowledge base. I'm hoping to get my foot in the door in an entry level position so I can begin accumulating relevant workplace experience. I'm especially interested in any employer willing to invest in furthering my education. I have the curiosity, the intellect, the desire to learn, and the tenacity to pursue my goals. I'm looking forward to the challenges that await me.

SKILLS

- Expert: MS Office, Windows and Mac OS
- Intermediate: Python, JavaScript, HTML, CSS, Bootstrap, Git, jQuery
- Beginner: Mathematica, MATLAB, Tailwind, Node.js, Chart.js

- Advanced knowledge and proficiency in Analytical, Organic, Inorganic, and Physical Chemistry techniques

- Advanced knowledge and proficiency in: Calculus in 1, 2, and 3 Dimensions, Statistics, Differential and Partial Differential Equations, Linear Algebra and Matrix Analysis, Mathematical Analysis, Mathematical Modeling, Numerical Analysis, and Differential Geometry

- Advanced knowledge and proficiency in the fields of:

  Newtonian Physics, Electromagnetism, Waves and Vibrations, Thermal and Statistical Physics, Modern Physics, and Quantum Mechanics

SOFT SKILLS

- Customer Service
- Communication
- Teamwork
- Leadership
- Problem-Solving
- Adaptability
- Planning and Strategic Thinking
- Detail-Oriented
- Organization
- Positive Attitude

Project Links

- A simple cryptocurrency tracking app using jQuery, Tailwind, Chart.js, and CoinGecko/Giphy APIs: https://github.com/pjdip/CryptoPURRency
- A simple password generator app using javascript: https://github.com/pjdip/Philip-DiPaula-OSU-bootcamp-hwk3
- A simple weather dashboard using jQuery, Bootstrap, and openweathermaps api: https://github.com/pjdip/Philip-DiPaula-OSU-bootcamp-hwk6

RESEARCH EXPERIENCE

Undergraduate Researcher
Laboratory of Dr. Bradley Arnold
University of Maryland Baltimore County - **January 2013 - May 2014**

The primary goal of my project was to understand and design chemical systems to use in solar energy storage. I used laser-induced fluorescence to obtain emission spectra of weakly emitting species, particularly charge-transfer complexes.

Langley Aerospace Research Student Scholar
NASA Langley Research Center, Hampton, VA
Dr. Narasimha Prasad and Dr. Narsingh Singh - **June 2013 - August 2013**

The project goal was to design and develop novel IR detector materials by determining methods of maximizing MWIR absorption. I studied the semiconductor material PbSe doped with Sn using thin films developed from physical and chemical vapor deposition techniques. I contributed to work published in Cooper et al., (2015). *Growth and morphology of lead tin selenide for MWIR detectors*.

PROFESSIONAL EXPERIENCE

Walgreens Pharmacy, Clarksville, MD - *Certified Pharmacy Technician*
September 2019 - February 2020
- Same as CVS (see below)

CVS Pharmacy, Elkridge, MD - *Certified Pharmacy Technician*
April 2015 - August 2019
- Customer service - Answered phones, assisted patients, worked the cash register and drive thru
- Patient consultation and direction towards OTC options/alternatives
- Handling of confidential electronic patient records in accordance with HIPPA
- Process insurance claims
- Inventory Management
- Prepare prescriptions including regulation of controlled substances
- Teamwork, Communication, Organization

Charm City Optical, Baltimore, MD - *Optical Technician*

April 2016 - January 2017

- Preparation of custom prescription lenses and frames using ((cutting edge)) equipment
- Blocking, polishing, bevelling and framing of each individual lens

EDUCATION

Full-Stack Web Developer Certificate

The Ohio State University
To be completed April 2021

B.S. in Chemistry

University of Maryland, Baltimore County
May 2014

B.S. in Mathematics

University of Maryland, Baltimore County
May 2014

Minor in Physics

University of Maryland, Baltimore County
May 2014

Minor in Philosophy

University of Maryland, Baltimore County
May 2014
Cumulative GPA: 3.69

AWARDS and AFFILIATIONS

Member of UMBC Chapter of Pi Mu Epsilon (Joined 2012)
Member of UMBC Chapter of National Society of Collegiate Scholars (Joined 2010)
UMBC Heritage Award Scholarship, 2009 - 2013
UMBC President's List, 2009-10, 2013
UMBC Dean's List, 2012
UMBC Honors College, 2009 - 2014
Eagle Scout with 1 gold palm, completed 2008