

# Taylor Henderson

GRADUATE RESEARCHER

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## Education

### George Mason University

DOCTORATE OF PHILOSOPHY IN COMPUTER SCIENCE

- Research Areas: topological data analysis and anonymized communications
- Graduate research/teaching assistant

Fairfax, VA

2020 – Present

### George Mason University

MASTER OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.93/4.0

- Time Series Analysis for Botnet Detection – *Thesis*
- Graduate research assistant

Fairfax, VA

2018 – 2020

### George Mason University

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.47/4.0

- Accelerated Master Program
- Undergraduate research/teaching assistant

Fairfax, VA

2014 – 2018

## Experience

### Food and Drug Administration (FDA)

ORISE FELLOW (CDER-OQS)

- Selected to present results to public during 9<sup>th</sup> Annual Scientific Computing Days
- Evaluated application of state-of-the-art NLP techniques (CNN, word2vec, BERT, Longformer, BioBert)
- Developed processes and pipelines to allow for experimenting with text techniques

Silver Spring, MD

May 2020 – September 2020

### George Mason University

GRADUATE RESEARCH ASSISTANT

- Worked with Dr. Simon, Dr. White and Dr. Jones to produce classified research for the DoD

Fairfax, VA

May 2018 – May 2020

### Cynash, Inc.

CO-FOUNDER

- Worked to adapt machine learning research from national laboratories into market viable products
- Defined Agile, PM, and CI/CD workflow for company

Tysons, VA

Fall 2016 – Winter 2019

### Gannett (USA Today)

DEVOPS/AUTOMATED TESTING INTERN

- Worked on a team of engineers to maintain a large multi-cloud deployment using CI/CD best practices
- Developed Restful API's in Go for SauceLabs and Scalr

Tysons, VA

Summer 2017

### Telos

TEAM LEAD INTERN

- Optimized National Laboratory code for a heuristic network anomaly detection algorithm
- Led 7 engineers (3 Interns, 4 active duty U.S. Navy)

Ashburn, VA

Summer 2014 – Summer 2016

## Projects

### pl-sweep

- Developed state-of-the-art algorithm for persistence landscape generation as part of M.S. Thesis
- Available on github

George Mason University

2020

### AirJam

- Developed a working air guitar and air piano using two Myo arms bands to capture motion
- Project won overall at John Hopkins's Hackathon

John Hopkins's Hackathon

2015

## Skills

**Languages** C/C++, Python, Java, Go, Lisp, bash/Linux scripting

**Frameworks** Spark (ETL and ML), MapReduce, Hadoop, NumPy, Cuda, Scipy, Matplotlib, grpc, pandas, PyTorch

**Tools** CircleCI, Docker, Kubernetes, Vim, Emacs, Linux, git, Chef, Ansible, Wireshark