

Work Experience

- **DynAgility LLC.** Ashburn, VA
Software Engineer Mar 2018 – Present
 - Gave the customer real-time access to data statistics by reducing the amount of time it took a query to appear in their web app from 2-3 weeks to < 5 seconds by building a data processing pipeline which extracted raw data from the customer's server to AWS S3, transformed the data utilizing Apache Spark jobs (Java) deployed in AWS EMR, and loaded the data into AWS Redshift and PostgreSQL (AWS RDS) backing a web application.
 - Eliminated concurrent query time increase of over 50% by converting data storage layer from Solr to AWS Redshift, bypassing an error in the Java Spring Boot Solr library.
 - Created a React web dashboard backed by a NodeJS REST API displaying deployment data from multiple Kubernetes clusters.
 - Updated and deployed Dockerized NodeJS demo application to AWS EC2 and configured MongoDB database for client demos to customers.
- **Reinventing Geospatial Inc.** Fairfax, VA
Software Engineer Intern Aug 2016 – Dec 2016
 - Increased measurement functionalities by 200% by integrating a new rangefinder device.
 - Added immediate feedback on input validation to all user forms. (C#, .NET, ArcGIS)
- **Check Point Software Technologies** Rockville, MD
Incident Response Intern Jun 2016 – Aug 2016
 - Decreased forensics lab reset time by 60% by automating and standardizing setup of Windows and Linux sandbox environments with Python.
 - Conducted forensic analysis on potentially compromised point of sale system for customer.
 - Provided general IT support for research and forensics lab.
- **Design For America at Virginia Tech** Blacksburg, VA
Project Co-Lead Sept 2015 – May 2016
 - Increased access to Virginia Tech athletic clubs and their events by leading a team to design and create an Android application backed by VT Athletics data.

Education

- **Virginia Tech** Blacksburg, VA
B.S. Computer Science 2012 – 2017
 - Coursework: Theory of Data Structures & Algorithms, Systems & Networking Capstone, Java Cloud Applications, Principles of Computer Security, Cryptography
Java, C, Android, Windows, Linux