

Alex Burkey

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Work Experience

Charter Communications

Denver, CO

Senior Platforms Engineer

Feb 2020 – Present

- Reduced incident resolution times in CDN server group by +95% by delivering a data pipeline to ingest, enrich, and aggregate +15 billion log lines per day from all CDN servers.
- Led major version upgrade of Terraform infrastructure code repository containing over 50 apps and supporting major AWS infrastructure with zero downtime.
- Increased stability of hourly ETL batch job by +95% by tuning Spark JVM settings and EMR cluster configuration settings.

DynAgility LLC.

Ashburn, VA

Software Engineer - AWS Solutions Architect Associate

Mar 2018 – Jan 2020

- Added over \$1,000,000 of new contracts for client by building a pipeline which extracted TBs of raw data to AWS S3, transformed the data using Apache Spark jobs (Java) deployed in AWS EMR, and loaded the data into AWS Redshift and PostgreSQL backing a web application.
- Decreased customer's monthly AWS expenditures \$750 by converting data storage layer from Solr to AWS Redshift.
- 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

- Tripled measurement functionalities by integrating a new rangefinder device.
- Added immediate feedback on input validation to all user forms; used C# and .NET

Check Point Software Technologies

Rockville, MD

Incident Response Intern

Jun 2016 – Aug 2016

- Decreased forensics lab reset time by 60% by automating setup of Windows and Linux sandbox environments with Python.
- Conducted forensic analysis on potentially compromised point of sale system for customer.

Education

Virginia Tech

Blacksburg, VA

B.S. Computer Science

Graduated 2017

- Coursework: Theory of Data Structures & Algorithms, Systems & Networking Capstone, Java Cloud Applications, Principles of Computer Security, Cryptography
- Technologies: Java, C, Android, Windows, Linux

Interests

Swing Dancing

- Taught over 200 hours of classes and private lessons in vintage swing dance styles of Lindy Hop, Balboa, Charleston, and Solo Jazz.
- Founding member and staff member of New Columbia Swing.
- Officer of Solely Swing at Virginia Tech for two years.