Alex Burkey

alex.w.burkey@gmail.com
(720) 319-7194

Skills

- **AWS Certified Solutions Architect**
- **Languages:** Java, Python 3
- **Frameworks:** Spark, React, NodeJS
- **OS:** MacOS, Windows, Linux, Android
- **Tools:** Git, AWS, Docker, Kubernetes, Solr

Work Experience

DynAgility | Software Engineer   **Mar 2018 -- Present**
- Design, build and deploy
    o Java Spark extract, transform, load (ETL) application to process data for Solr
    o Python utilities to pre-process data for ETL and upload result to AWS S3
- Manage processing of data and lookup files through entire pipeline
- Built React and NodeJS dashboard and REST API to display deployment data from Kubernetes
- Deploy existing web app on Amazon Web Services
    o Made updates to application and deployed a demo version to AWS
    o Made recommendations for security updates and AWS services to make the application scalable and resilient for MVP

Reinventing Geospatial | Software Engineer Intern   **Aug -- Dec 2016**
- Worked on ENFIRE, a .NET and ArcGIS application for the US Army
- Implemented and integrated new laser range finder external device
- Re-tooled validation of user-input and UI of forms

Check Point Software Technologies | Incident Response Intern   **Jun -- Aug 2016**
- Conducted forensic analysis on point of sales system.
- Created custom scripts to setup Windows and Linux sandbox environments
- Provided IT support for Research and Forensics lab.

Design for America at Virginia Tech | Project Co-Lead   **Sep 2015 -- May 2016**
- Lead Programmer on ActiVT, an Android fitness application for VT students
- Coordinated with VT RecSports and team to design and pick features

Education

Virginia Tech – B.S. Computer Science   **December 2017**
Coursework
- Android Development
- Java Cloud Applications
- Principles of Computer Security
- Cryptography
- Theory of Data Structures and Algorithms
- Systems and Networking Capstone

Projects

Project Manager | Systems and Networking Capstone   **Aug-Dec 2017**
- Manager for capstone project to study infrastructure starved Peer-to-Peer networks
- Profiled and stressed small peer-to-peer network
- Investigated security solutions to prevent eavesdropping and other attacks