Alex Burkey

720-319-7194
alex.w.burkey@gmail.com
https://alexburkey.com

Work Experience

- **DynAgility LLC.** — Ashburn, VA
  Software Engineer — *Mar 2018 – Present*
  - Streamlined customer's statistical analysis – from 2-3 weeks to process a single query to a < 1 week pipeline across over 1TB of data that pre-computes results for real-time answering of queries.
  (Java, Apache Spark, Python 3, PostgreSQL, Solr, AWS – S3, EC2, EKS, EMR, RedShift)
  - Eliminated concurrent query time increase by moving data storage layer from Solr to AWS Redshift, to bypass an error in the Java Spring Boot Solr library.
  (Java, Apache Spark, Solr, AWS – Redshift, EMR)
  - Display deployment data from multiple Kubernetes cluster as a web dashboard backed by a REST API.
  (React, NodeJS, Kubernetes)
  - Increased resilience of existing customer demo application by migrating it to AWS. Made recommendations to increase scalability with expansion to other AWS services.
  (Docker, NodeJS, MongoDB, AWS – EC2)

- **Reinventing Geospatial Inc.** — Fairfax, VA
  Software Engineer Intern — *Aug 2016 – Dec 2016*
  - Added immediate feedback on input validation to all user forms.
  - Added 3 measurement functionalities by integrating a new rangefinder device.
  (C#, .NET, ArcGIS)

- **Check Point Software Technologies** — Rockville, MD
  Incident Response Intern — *Jun 2016 – Aug 2016*
  - Decreased forensics lab reset time by automating and standardizing setup of Windows and Linux sandbox environments. (Python, Windows, Linux)
  - 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 Atheletics data.
  (Java, Android)

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)