Alex Burkey

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Software Engineer – DynAgility LLC. Ashburn, VA 8/2018 – Present
Designed, built and deployed ETL application in AWS EMR to process Medicare and Medicaid patient data. Created and deployed Python utilities to pre-process data and upload to AWS S3. (Java, Apache Spark, Python3, Solr, AWS – S3, EC2, EKS, EMR)

Architected migration from Solr to PostgreSQL. Designed performant table structure and queries allowing for effective concurrent usage. (RDS, PostgreSQL, Solr)

Built web dashboard and REST API to display deployment data from multiple Kubernetes clusters. (React, NodeJS, Kubernetes)

Migrate existing application to AWS. Update architecture to deploy demo version. Made recommendations for security updates and AWS services to make the application scalable and resilient for MVP. (Docker, AWS – EC2, NodeJS, MongoDB)

Software Engineer Intern – Reinventing Geospatial Inc. Fairfax, VA 8/2016 – 12/2016
Implemented and integrated new laser rangefinder external device. Updated and improved validation of user-input on all forms. (C#, .NET, ArcGIS)

Incident Response Intern – Check Point Software Technologies Rockville, MD 6/2016 – 8/2016
Conducted forensic analysis on compromised point of sale system for customer. Automated and standardized setup of Windows and Linux sandbox environments for forensics lab. Provided general IT support for research and forensics lab. (Python, Windows, Linux)

Project Co-Lead – Design for America at Virginia Tech Blacksburg, VA 9/2015 – 5/2016
Led team to create and develop an Android fitness application to connect to Virginia Tech athletic clubs and events. (Java, Android)

EDUCATION
Virginia Tech, December 2017
B.S. Computer Science
Coursework included: Android Development, Java Cloud Applications, Principles of Computer Security, Cryptography, Theory of Data Structures and Algorithms, and Systems and Networking Capstone (Java, C, Android, Windows, Linux)

HOBBIES
Swing Dancing
Taught hundreds of hours of classes and private lessons and created curricula for vintage swing dances styles of Lindy Hop, Charleston, Balboa, and Solo Jazz with swing dance organizations in Washington DC and at Virginia Tech.