Derek Elliott

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Experience

March 2022 – Current **Lead Technologist - DevOps Engineer**, *Booz Allen Hamilton*, Alexandria, VA.
- Acted as technical Subject Matter Expert and Lead Architect on large government project
- Provided operational support for multi-tennent Kubernetes environment
- Developed and maintained automation and deployment scripts for multiple Kubernetes clusters
- Managed Kubernetes clusters across multiple air-gapped networks
- Developed and maintained CI/CD pipelines for automated infrastructure deployment
- Developed and maintained CI/CD pipelines for application lifecycle management
- Developed permission policies for multi-tennent Kubernetes clusters
- Modernized deployment processes for legacy applications
- Developed and maintained full LDAP backed authentication pipeline with custom auth flows

March 2020 – March 2022 **Software Developer III**, *BlackSpoke*, Springfield, VA.
- Acted as technical, and DevOps lead on multiple government projects
- Provided operational support for multi-tennent cloud environment
- Developed management scripts to reduce cost and ensure compliance with security controls
- Developed custom CI/CD pipelines for infrastructure as code projects
- Developed permission policies for cloud based services to grant least privilege
- Provided deployment and functional testing support during customer defined testing events
- Developed new functionality for and maintained large scale data dissemination service

July 2019 – March 2020 **Data Scientist**, *Elder Research, Inc*, Arlington, VA.
- Acted as technical, and development lifecycle lead on multiple government projects
- Worked closely with government clients to identify and remediate security concerns
- Maintained legacy analytic reporting desktop application
- Developed custom analytic reporting dashboards
- Developed multiple data cleaning and analytic REST based microservices for analyzing financial and text based data
- Architected a custom and extendable ETL and analytics pipeline

July 2016 – July 2019 **Staff Technologist - Data Scientist**, *Booz Allen Hamilton*, Alexandria, VA.
- Developed scalable streaming ETL pipeline
- Developed container orchestration service focusing on short lived stateless services
- Developed a scalable analytic framework with data fusion and mapping
- Developed multiple analytic algorithms as REST based microservices and Spark applications
- Worked closely with government clients to develop and refine a long-term development roadmap
- Acted as ScrumMaster and Technical Lead for a team of nine developers
- Reviewed and managed merge requests from over ten development teams
- Developed specialized CI/CD pipeline for cross domain deployments to secure networks
- Lead multiple client-facing meetings each week for a program of over 120 developers

May 2015 – July 2016 **Security Specialist**, *AppRiver*, Gulf Breeze, FL.
- Developed multiple scripting tools to facilitate anti-virus rule coding
- Developed accurate pattern recognition and forecasted future patterns based on historical data
- Coded anti-virus rules to block malicious email campaigns using regular expressions
- Analyzed features and functions to ensure desired results in mitigating spam email campaigns
- Created dynamic email filtering rules on demand

Skills

- Python, Golang, Bash, Java, Scala, Groovy, Typescript, SCSS
- Angular 8, Flask, Eclipse Jetty, Apache Tomcat, Apache httpd, Nginx
- PostgreSQL, Oracle, ElasticSearch, Redis, Elasticache, Apache Kafka, Apache Spark, Apache Nifi, Databricks, Keycloak, LDAP, FreeIPA
- Amazon Web Services, Google Cloud Services, Kubernetes, Rancher, Mesos, Marathon DC/OS
- Terraform, Terragrunt, Docker, Git, Maven, Jenkins, Gitlab CI/CD, ArgoCD, Helm, Sonar-Qube, HP Fortify, Nexus
- Agile, SAFE, Scrum, Jira, Confluence, Excel, Microsoft Office Suite
- Clustering Algorithms, Regression Algorithms, Convolutional Neural Networks for Image Processing, Anomaly Detection
- Microsoft Windows Vista, 7, 8, 10, OS X, Arch, Ubuntu, CentOS, and RHEL based operating systems

Awards

- Basic Training Honor Graduate - 2009 - United States Air Force
- First Year Impact Award - 2017 - Booz Allen Hamilton

Security Clearance

- Top Secret/SCI with Counter Intellegance Polygraph - 2019 to present

Education

Aug 2014   **Bachelor of Science**, *Mathematics*, University of Nebraska at Omaha, Omaha, NE.