Christopher Buckner

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LinkedIn | GitHub

Professional Summary

Results-driven Software Engineer with expertise in cloud infrastructure, system automation, and security. Proven track record in developing and implementing scalable solutions using AWS services and modern development practices. Bilingual professional (English/Spanish) with strong analytical and problem-solving capabilities.

Professional Experience

Amazon Web Services (AWS)

Systems Engineer II (L5) | *June 2022 – Present*

Redshift Console Team:

- Lead system engineer responsible for infrastructure automation and service reliability for Redshift Console and Query Editor v2.
- Orchestrate new region builds for Redshift Console, including complete deployment of Query Editor v2 in US Government regions.
- Develop and maintain CI/CD pipelines utilizing AWS CDK, CloudFormation, and boto3 SDK.
- Implement security enhancements and manage system patching across non-native AWS EC2 instances.
- Provide on-call support for Redshift Console and GovCloud services.
- Mentor junior engineers and interns while fostering knowledge sharing within the team.
- Provide ongoing support to teammates by applying expertise in Linux systems and software development, enhancing code quality and system reliability.

Digital Defense Inc. (now Fortra)

Software Engineer II | *Jan 2018 - May 2022*

Vulnerability Research Team:

- Architected and implemented a new command and control system for scanner appliances.
- Enhanced network scanner capabilities with focus on authenticated scanning features.
- Integrated One Identity Privileged Access Management for automated authentication.
- Implemented TLSv1.3 support in scanner engine.
- Automated build processes through Jenkins pipeline optimization.
- Led bi-monthly release cycles and managed Microsoft vulnerability updates.
- Successfully transitioned to remote work environment while maintaining high productivity.

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Software Developer Intern | *May 2017 - Oct 2017*

- Designed and implemented a RESTful vulnerability whitelist API using Falcon framework and SQL Alchemy ORM.
- Developed CI/CD pipeline for automated testing and deployment to ESXi virtual machines.
- Created documentation using Swagger and implemented mock intrusion detection API in C#.

Education

Bachelor of Science in Computer Science | *2015 – 2017*

University of Texas at San Antonio

GPA: 3.6

Technical Skills

- **Cloud & Infrastructure**: AWS (IAM, EC2, Lambda, S3, CloudFormation, CloudWatch, ACM, API Gateway, Route53, CloudTrail, ECS), *Kubernetes*, IaC (AWS CDK, Cloudformation, AWS SDK (boto3)
- **Languages**: Python3, Golang, Java, Bash, Perl.
- **Databases**: Postgres, Redshift, DynamoDB, SQL, MongoDB, Redis.
- **DevOps**: Git, Jenkins, CI/CD, Infrastructure as Code (CloudFormation, AWS CDK, AWS SDK).
- **Security**: Network Security, Vulnerability Assessment, Authentication Systems.
- **Operating Systems**: Linux (Debian-based distributions, AMI).
- **Networking**: TCP/IP Stack, VPN (OpenVPN), Network Diagnostics.

Projects

- Engineered a performant build-time code injection system using custom Python 3 module-based templating, enabling dynamic text injection and modular extensibility while reducing hardcoded logic and minimizing the need for repetitive code reviews.
- Created simple-helm-chart-repo a public helm repo which is located at custom-github and is currently running at app.buckcc.com/custom
- Developed k8s_utilites, a shell-based automation toolkit for provisioning multi-node Kubernetes clusters with VirtualBox, supporting rapid setup and reproducible local development environments.
- Developed an automated resource management package for Redshift Console TestCafe end-to-end testing, leveraging Boto3 (AWS SDK for Python) to dynamically provision and clean up Redshift resources before and after test execution.
- Created CLI automation tool for AWS trouble ticket management.
- Implemented cross-platform network utility in Go (netinfo) – (small, personal project)
- Designed automated region deployment scripts for Redshift Console and Query Editor v2.
- Led IAM security enhancement project, transitioning from long-term credentials to role-based authentication.

Core Competencies

- Linux Systems Engineering & Shell Scripting.
- Python Development (Automation, Tooling, Boto3, Scripting).
- Cloud Infrastructure (AWS, Boto3, Resource Management).
- Software Design & Architecture.
- Version Control (Git, GitHub).
- Agile Development & Team Collaboration.
- Performance Optimization & Debugging/Troubleshooting.
- Strong problem-solving and analytical skills.
- Detail-oriented with focus on security best practices.
- Proven ability to work independently and in team environments.
- Strong work ethic and time management skills.