BRETT COSTABILE

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Professional Summary

Accomplished Software Engineer at Barracuda Networks, adept in Python and Kubernetes Administration. I spearheaded the automation of cloud deployments and significantly enhanced service integrations. My leadership in mentoring and developing cutting-edge solutions underscores a blend of technical prowess and team collaboration, driving substantial improvements in operational efficiency and product innovation.

Skills

Programming: Python, Go, HTML5, CSS, Javascript

Libraries/Platforms: Django, Flask, Pytest, Cement, Pandas, Jenkins, Github

Data/Databases: SQL, NoSQL, MySQL, PostgreSQL, MongoDB, DyanmoDB, Prometheus, Grafana

Cloud/Technologies: Amazon Web Services, Google Cloud Platform, RDS, EKS, S3, Lambda, Docker, Kubernetes

Tools: Ansible, Terraform

Certifications

- AWS Cloud Practitioner (Expired 2024-05-28)
- Certified Kubernetes Administrator

Work History

Sr. Software Engineer   06/2018 to 06/2024

Barracuda Networks Inc. – Ann Arbor, MI

Responsible for developing and maintaining service integrations for the Ops organization.

Developed internal SaaS and IaC solutions to automate cloud deployments.

- Mentored junior members on best coding practices and testing methodology
- Developed and refined integrations with 3rd party services
- Maintained technical documentation for internal products and processes
- Developed audit process for company AWS accounts
- Developed platform agnostic Kubernetes deployment

Software Engineer   05/2016 to 06/2018

Barracuda Networks Inc. – Ann Arbor, MI

Responsible for developing, testing, and documenting automated testing frameworks. Wrapped internal APIs and integrated test management software.

- Automated over **1100** test cases, saving the company thousands of man-hours in QA
- Built Python APIs for **7** services

Escalation Engineer   02/2014 to 05/2016

Barracuda Networks Inc. – Ann Arbor, MI

Handled customer issues which exceeded the capabilities of the support team. Implemented solutions while communicating with customers, developers, and project management.

- Handled over **1200** customer issues

Projects

AWS Cost Reduction Audit

Started an initiative as part of the Ops team to reduce cloud spend in AWS. This required developing procedures which leveraged AWS's auditing tools, collating relevant information, and reaching out to stakeholders to determine the appropriate actions to be taken for flagged resources.

- Identified over **$144,000** in annual savings for the company.
- Produced and documented audit procedure

Nginx Virtualserver support for k8s_gateway (Go)

While working on my homelab k8s deployment project, I found a need to add support for the Virtualserver custom resource to the k8s_gateway plugin for CoreDNS.
This contribution included documentation, as well as unit and integration testing using Tilt.

Common Kubernetes Framework

As part of an initiative to shore up a failing Kubernetes deployment, I lead a project to architect a common framework that would remove a large amount of technical debt from product teams utilizing Kubernetes. By utilizing ArgoCD, we turned the common components of our Kubernetes into a codified deployment. We also created automated deployments for multiple platforms such as AWS and Microk8s by utilizing Ansible, Terraform, and Cloudformation.

Backup Cloud Dockerization

My small R&D team developed a containerized version of Barracuda's Backup cloud components with the goal of greatly reducing the turnaround time for QA environments, as well as moving the company towards a microservice architecture.

- Reduced environment provisioning time from **6 months** to under **1 hour**