

Aeriel Kawasaki

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Summary

DevOps engineer with experience in cloud computing, infrastructure automation, and containerization. Skilled with AWS, Terraform, Docker, Kubernetes, Github Actions and scripting with Python. Knowledgeable in building scalable and fault-tolerant architectures. Passionate about continuously streamlining and automating processes to enhance efficiency, productivity, and overall system performance, ensuring seamless operations at every opportunity. Self motivated learner exploring devops and cloud technologies.

Skills and Certifications

- Certifications: **AWS Certified Developer Associate, Terraform Certified Associate**
- Python scripting for interacting with AWS
- Utilizing Docker to ensure cohesive environments on different machines for development by pulling, building, running, and troubleshooting images from DockerHub and AWS ECR
- Using Kubernetes for container orchestration by deploying, monitoring, logging and troubleshooting pods and nodes
- AWS - creating S3 buckets, DynamoDB tables, using Lambdas, employing Cloudwatch for monitoring, and utilizing roles and IAM credentials to help secure applications
- Automating infrastructure with Terraform
- Proficient with PostgreSQL and SQL querying for data abstraction
- Building Continuous Integration and Continuous Deployment (CI/CD) Pipelines with Github Actions to automate workflows
- Git and Github for documentation and version control

Projects

AWS Cloud Resume

- Developed and deployed a professional website using HTML and CSS hosted on AWS S3 with HTTPS security and a custom DNS domain name, leveraging CloudFront and Route 53
- Implemented a counter using Javascript that integrates with an AWS RDS database through API Gateway and a Lambda Function. Used Terraform to create a configuration file for the infrastructure

Docker and Kubernetes Project

- Architected a dynamic Flask application that harmoniously integrates with a robust Postgres database. Using Github Actions, orchestrated the automatic creation of two Docker images, assigning meaningful tags. These images reside in their own dedicated repositories within AWS Elastic Container Registry (ECR). Utilized those container images to establish two Kubernetes deployments—one for a web application and another for a database. Orchestrated two Kubernetes services to facilitate seamless communication, not only within the pods themselves but also between the web application and the broader internet

Terraform Project for Level Up in Tech

- Created an EC2 Instance that holds a container image of (GETH) using Terraform. Implemented this by creating an ECR that would pull the current image from DockerHub and then use that container image on the start up of the EC2 instance. Stored the Terraform State file securely in an S3 bucket and used DynamoDB for versioning of that statefile.

Related Experience

Articulate (Remote) - QA Engineer II

September 2020 - February 2023

- Took part in sanity, regression, and API testing (Postman) for current and new features to ensure that the user experience was well executed and contributed to increasing customer retention by 10%
- Contributed to automating tests in the frontend of the application utilizing Jest and Playwright, increasing coverage by over 100%
- Participated in helping troubleshoot errors in CI/CD Pipelines with Jenkins

World IP Phone (Mountain View) - QA Tester

October 2016 - July 2019

- Collaborated with other 10 other QA Engineers on finding, reporting, and verifying bugs on various platforms
- Tracked and triaged bugs in Buganizer to help developers create and implement new features

Education

Level Up in Tech

- 24 week Project-based Cloud Computing program; Weekly projects included utilizing tools like Docker, Kubernetes, and Terraform, while also exploring the many services offered by AWS

The University of Texas at Austin

- **Bachelor of Science in Kinesiology**; Minors in Biology, Chemistry, and Educational Psychology