

# Ariel Kawasaki

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## Summary

**DevOps engineer** with expertise in cloud computing, infrastructure automation, and containerization. Skilled with AWS, Terraform, Docker, Kubernetes, Github Actions and scripting with Python. Strong background 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.

## Skills and Certifications

- Certifications: **AWS Certified Developer Associate, Terraform Certified Associate**
- Linux scripting for setting up servers and 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, creating SQS and SNS, and 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
- General Understanding of Ansible used to set up servers

## Projects

### Python and Boto3 on AWS

- Used python to create a script that will automatically shut down running EC2 instances with a specific tag
- Used python to create a script to create a DYNAMODB table, created items in the table, and removed items using the partition and sort key

### AWS and Docker Project

- Created a Flask application with a Postgres database. Used Github Actions to automatically create two docker images that are pushed to AWS ECR

### Kubernetes Project

- Created a deployment that contains 5 pods running NGINX servers. Added in ConfigMap that pointed to a custom index.html page, and make sure that the custom page is reachable from the internet

### Terraform Project

- Used Terraform (IaC) to create cloud infrastructure on AWS - deployed 3 web servers across 3 availability zones for fault tolerance using the default VPC. Bootstrapped each of the EC2 instances with NGINX serves so that a static webpage appears.

## 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 such as VPCs, EC2, S3, DYNAMODB, Lambda, Cloudwatch, and more

### The University of Texas at Austin

B.S in Kinesiology, Minors in Biology, Chemistry, and Educational Psychology