Christopher Mello

Multi Certified AWS Software Engineer and DevOps Project Manager

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I am a multi-certified AWS Software Engineer and DevOps Project Manager with extensive hands-on experience working in both the AWS cloud platform, including managing EC2 instances, user access lists, ALB's , VPC networks, Lambda functions, machine learning templates, setting up Cloud9 environments (copilot), and Ansible test beds on the cloud. Our team releases software builds using the DevOps agile methodology (Jenkins); writing Python/Java modules, managing AWS using terraform, creating Ansible playbooks, managing git repositories, and developing Kubernetes clusters. I also direct Raytheon scrum teams with software requirements, test results and debugging insights. This includes load balance mega VM ingest queues using a variety of tools in Apache, Tomcat and AWS. Test beds are built on the AWS cloud including; Ansible playbooks, Jenkins, BigFix, DevOps builds and many more. Finally, the major API is a complex Python based web interface used for thousands of users daily across the country.

Work Experience

Lead Hyper-converged Infrastructure cloud developer

U.S. Department of Commerce
March 2020 to Present

- AWS certified team lead converting six major government departments to an AWS cloud environment

- Managed and upgraded a multilayered Python web APIs on AWS cloud

- Set up beta builds platforms on AWS including 100 subnet VPCs, EC2's, userpools and security protocols.

- Used Ansible automation to upgrade and monitor systems

- Wrote thousands of lines of Python code

- Worked with a team to set up Lambda functions to trigger off of current forecasts (Python)

- Coordinated and directed hypervisor installations on multiple racks for VMM by writing modification notes

- Improved architecture for recording and retrieval of mega datasets using S3 Glacier

- Configured BigFix monitoring software to link with Azure cloud VM

Cross Platform Computer Network Engineer - National Hurricane Center Miami

NOAA: National Oceanic & Atmospheric Administration - Miami, FL
October 2014 to March 2020

- Managed network Linux (AWIPS) design, project managers and operations technicians for NHC and collocated agencies

- Part of transition team that converted the legacy NHC web page to AWS in 2017

- Overall responsibility for network monitoring and ticket response, including the work with AWIPS Network Operations Center and AWS web performance

- Upgraded network and firewall infrastructure to include remote access of AWIPS on AWS for the Air Force Hurricane Hunters (NOAA Bronze award 2020 for this work)

- Created AWS architecture to test new builds, upgrade existing applications and code conversion from Python2 to Python3

- Used docker images to improve performance of the AWS platform for NOAA hurricane hunter division

Education

Master's degree in Data Science
UH at Manoa - Honolulu, HI
August 1996 to February 1999

Skills

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Do you have any of these top skills employers are looking for?

Jenkins

VMWare

CI/CD

S3

SQL

HTML5

Cloud Computing

Ant

Dismiss

AWS

Python

Git

Java

Linux

Shell scripting

Agile

Dev Ops

MySQL

Docker

Javascript

SVN

Microsoft SQL server

Apache

Scripting

Ansible

Github

Operating systems

Terraform

Awards

National Hurricane Center Cline Award

October 2019

Licenses & certifications

AWS Certified Developer – AssociateAmazon Web Services (AWS)Issued Oct 2022 · Expires Oct 2025Issued Oct 2022 · Expires Oct 2025

[AWS Certified Cloud Practitioner · Expires Oct 2025](#)

[AWS Solution Architect Expires 2025](#)

[FAC P/PM Project Management Certification - 2022](#)