Christopher Mello

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☁ http://christopher-mello-aws-weston.link/index.html

SUMMARY

About
Hands-on Team engineering software leader with experience in building highly performant teams
responsible for multiple cross-functional areas of development. Successful at team
building, development operations, continuous integration/delivery, agile transformation,
production support, and NOAA R&D efforts.

* Created hundreds of python and javascripts modules
* Built high scale web API's for aws
* Leadership, organization, collaborative, multiple major government agencies
transition to aws cloud through out the stack
* Commitment to serving the public with dependable warnings for AWS web
* Team building culture specialist across multiple disciplines
* Hardware-Software interface specialist with extensive experience integrating legacy
and custom hardware and software into multiple platforms using technology such as
Docker, Jenkins, Terraform and Ansible.
* Multiple current certifications in AWS, Project Management and Linux
* Numerous national awards for my work

EXPERIENCE

Software Manager Team Lead NOAA National Centers
Commerce Department   **June 2020 - Present, College Park, Maryland**

· Wrote thousands of lines of Python code based on functional specification for NOAA API's and technical design with adhering to
architectural standards and developed designs that consider impact with other aspects of the database and appropriately leverage existing
code.
· Leveraged public open source technologies, databases - RDS, serverless (AWS Lambda) and drove optimal solution design collaborating
with architects and cross-functional teams.
· Independently analyzed and resolve production problems, assessing alternatives as appropriate and implementing long-term solutions for
transition to virtual machines and the Cloud.
· Evaluated and interpreted requirements to design, develop and implement appropriate solutions and built and automated repeatable
processes to efficiently deploy rate updates into the existing rating engine.
· Performed code reviews, identified potential issues to reduce technical debt and provide coding best practice recommendations.
· Took the ownership of tasks, delivered with limited supervision and collaborated closely with members of other teams throughout the
delivery of the product.
· Used terraform modules to build a complex infrastructure on aws for DevOps and testing.

Software Developer
National Hurricane Center   **October 2014 - October 2020, Miami, Florida**

· Designed and built horizontally scalable components within the major python based platform that the team developed for the aws cloud..
· Reviewed and provided Javascript code feedback in terms of best practices with a keen eye towards performance and stability optimizations.
· Linux subject matter expert on code deployed on our platform and provided Spark/Big Data support to other developers.
· Wrote reusable and extendable code as a key contributor to the core platform and consistently worked to make our software simpler.
· Managed AWS user accounts, ami images, API and local python applications on EC2 instances.
· Automated monitoring software and deployments using Ansible and terraform.
· Created numerous Lambda functions on AWS to process radar data from hurricane hunters.
· Wrote and debugged thousands of lines of Javascript code in the baseline NWS AWIPS software.

Linux Administrator
NOAA Information Technology Officer   **March 2002 - October 2014, Cleveland Ohio**

· Worked on a web application that provides real-time data to major weather providers.
· Performed analysis, design, development, and configuration functions as well as define technical requirements for assignments of
intermediate complexity.
· Participated with the team to perform analysis, assessment and resolution for defects and incidents of intermediate complexity and escalate
appropriately.
· Worked within guidelines set by the team to independently tackle well-scoped problems and sought opportunities to expand technical
knowledge and capabilities.

AWS Consulting lead
AWSTECH LLC   **January 2020 –December 2022, Fort Lauderdale**
· Created training AWS training videos
· Created numerous terraform scripts using terraform modules
· Wrote multiple applications using both Javascript and Python
· Managed youtube channels

EDUCATION

Masters Degree in Science
Minor in Computer · University of Hawaii · Honolulu Hawaii · 2000 · 3.62

CERTIFICATIONS

AWS Cloud Practitioner
Lauderdale, Florida · 2022
AWS is an important platform for all software

AWS Developer Associate
College Park , Maryland · 2022
AWS is a vital platform for all software development

NOAA Linux Administration Certification
Kansas City · 2015
Linux is a vital operating system for software development

Project Management Certification
Cleveland Ohio · 2014

Python Developer Certification
Online – Commerce Department learning center · 2016

PROJECTS

Hurricane Hunters AWIPS Cloud transition
NOAA · January 2019 – January 2022
· Wrote Python code based on functional specification to download large sets of data for use in the AWS cloud
· Modified the python API to meet user requirements
· Converted numerous python2 libraries to python3

AWIPS python2 to python3 conversion
NCEP · July 2019 – August 2020
· Wrote Python code based on functional specification and technical design to convert to convert thousands of lines code to python3

Radar Data Image Creator for Hurricane Research Division
Hurricane Research Division · January 2018 – March 2019
· Converted binary radar data into Buffer files for ingest into REST API.
· Created visual interface to view radar data
· Received National Award for my work

Python graphical user interface for GFE
National Weather Service · January 2014 – May 2014
· Converted legacy software to a python based API for viewing NWS weather data

SKILLS

Jenkins, VMWare, CI/CD, S3, SQL, HTML5, Cloud Computing, AWS, Python, Git, Java, Linux, Shell scripting, Agile
Dev Ops, MySQL, Docker, Javascript, SVN, Apache, Ansible, Github, Terraform