

# Christopher Mello

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🔗 <http://christopher-mello-aws-weston.link/index.html>

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## 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.

- \* Built high scale web API's in python and javascript
- \* 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

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## EXPERIENCE

### **Software Manager Team Lead NOAA National Centers | Commerce Department | College Park, Maryland | June 2020 - October 2022**

- Wrote 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 | Miami, Florida | October 2014 - October 2020**

- Designed and built horizontally scalable components within the major platform that the team is developing.
- Reviewed and provided code feedback in terms of best practices with a keen eye towards performance and stability optimizations.
- Subject matter expert on code deployed on our platform and provided Spark/Big Data consulting 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.
- Created Lambda functions on AWS to process radar data from hurricane hunters.
- Wrote and debugged Javascript code in the baseline NWS AWIPS software.

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

- 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.

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## EDUCATION

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

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## TRAINING

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### **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 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
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## CERTIFICATIONS

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### **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**

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## SKILLS

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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