JESSICA CLAIRE

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SKILLS

Cloud: OpenStack, AWS, Azure
Container: Docker, Kubernetes, EKS, AKS, Podman, OpenShift, Rancher
Databases: PostgreSQL, MySQL, MariaDB
Monitoring: Prometheus, Grafana, ELK
CI/CD: Jenkins, Argo CD, GitHub actions
IaC/Configuration management: Terraform, Ansible
Programming Languages: Python, Go
Version Control: git, GitHub, GitLab, Gogs
OS: RedHat, Centos, Ubuntu, Fedora, Suse

EDUCATION AND TRAINING

Northwestern Polytechnic University
Fremont, CA • 06/2017

Master of Science: Information Technology

Jawaharlal Nehru Technological University
Hyderabad • 06/2015

Bachelor of Science: Computer Science

SUMMARY

Structured Python Developer bringing 7 years of comprehensive experience developing back-end components, connecting applications with other web services and supporting front-end developers, Tech-savvy and methodical professional possessing strong understanding of front-end technologies. Familiar with server-side template languages.

EXPERIENCE

Metlife - Aws/Python Developer
City, STATE • 11/2022 - Current

- Wrote ANSIBLE Playbooks with Python, SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python. Run Ansible Scripts to provision Dev servers.
- Written bash and python scripts integrating Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMI's and scheduling lambda functions for routine AWS tasks.
- Developed and designed an API (RESTful Web Service). Used the Python language to develop web-based data retrieval systems.
- Designed and maintained databases using Python and developed Python based API (RESTful Web Service) using Flask, SQL-Alchemy and PostgreSQL.
- Coordinated installation of software systems and collaborated with user experience team on design and implementation of new features.
- Leveraged Agile methodologies to move development lifecycle rapidly through initial prototyping to enterprise-quality testing and final implementation.
- Monitoring both infrastructure and applications using Prometheus-Grafana and Splunk for comprehensive and efficient monitoring.
- Deploying and managing highly available Kubernetes clusters in both on-premise and cloud environments
- Developed company-wide technical strategy plans for Python-based assets, overseeing development, coding, debugging and Deployment.
- Designing and implementing robust CI/CD pipelines utilizing industry-leading tools including GitHub Actions, CircleCI, Jenkins and Argo CD
- Creating and managing Terraform modules for provisioning infrastructure on cloud providers such as AWS, and Azure
- Expertise in utilizing various AWS services, including VPC, EC2, IAM, ECS, EBS, RDS, S3, Lambda, ELB, Auto Scaling, Route 53, Cloud Front, CloudWatch, CloudTrail, SQS, and SNS to design and implement scalable and highly available solutions
- Identified possible system enhancements to improving functionality and streamline administration.
- Used Nifi and Python to create data flows and transformations.

CDC - Aws /Python Developer
City, STATE • 10/2019 - 10/2022

- Used the AWS -CLI to suspend on Aws Lambda function used AWS CLI to automate backup of ephemeral data stores to S3 buckets EBS.
- Gathered Semi structured data from S3 and relational structured data from RDS and keeping data sets into centralized metadata Catalog using AWS GLUE and extract the datasets and load them into Kinesis streams.
- Worked as part of an Agile/Scrum based development team and exposed to TDD approach in developing applications.
- Worked on designing and deploying a multitude application utilizing almost all the main services of the AWS stack (like EC2, S3, RDS, VPC, IAM, ELB, EMR Cloud watch, Route 53, Lambda and Cloud Formation) focused on high availability, fault tolerance environment.
- Introduced new features and solved existing bugs by developing code for a cloud-based integration platform (iPaaS) and Migrated customer data from legacy iPaaS to AWS.
- Deployed and tested different modules in Docker containers and GIT. Implemented programming automations using Jenkins and Ansible on Unix/Linux based OS over cloud like Docker.
- Developed data transition programs from DynamoDB to AWS Redshift (ETL Process) using AWS Lambda by creating functions in Python for the certain events based on use cases.
- Written bash and python scripts integrating Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMI's and scheduling lambda functions for routine AWS tasks.
- Developed data transition programs from DynamoDB to AWS Redshift (ETL Process) using AWS Lambda by creating functions in Python for the certain events based on use cases.
- Working with AWS Lambda, AWS Connect, Amazon Lex, AWS CLI, AWS SDK with Python-Boto3, Serverless and PaaS toolkit, EMR, Kinesis, Glue, S3, RDS and other core AWS services.
- Installing and managing highly available open-source database clusters including PostgreSQL, MySQL, and MariaDB, ensuring high performance and reliability for mission-critical applications
- Deploying and effectively managing highly-available Kubernetes/OpenShift clusters in both on-premise and cloud environments.
- Utilizing the Operator Framework, creating a Kubernetes operator and custom Helm plugins to automate complex tasks more efficiently
- Implemented and integrated CI/CD pipeline with Terraform to automate infrastructure deployment
- Integrated Java-based web services into database management projects using Python.

DaVita - Aws/Python Developer
City, STATE • 08/2017 - 08/2019

- Designed and built cloud service models including Infrastructure-as-a-Service, Platform-as-a-Service, and Container As Service.
- Created cloud-native platforms and software, optimizing products to work in distributed computing environments.
- Introduced cloud-based technologies into Python development to expand on-premise deployment options.
- Implemented new API routes, architected new ORM structures and refactored code to boost application performance.
- Developed company-wide technical strategy plans for Python-based assets, overseeing development, coding, debugging
- Container orchestration with docker swarm and Kubernetes building auto provisioning cluster and helping customers with deploy apps in micro services architecture.
- experience in Design and deploy CI/CD pipelines (CircleCI, Jenkins,)
- Worked in all areas of Jenkins setting up CI for new branches, build automation, plugin management and securing Jenkins and setting up master/slave configurations.
- Integrated object-oriented design and development techniques into projects to support usability goals.
- Identified possible system enhancements to improving functionality and streamline administration.
- Collaborated with quality assurance team to verify correct implementation of software development changes.
- Stayed current on developments in related Python frameworks.