

SHUBHAM PAI

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SKILLS

Programming: Terraform, Python, Bash, kubectl, JSON, YAML, Angular

Containerization: Docker, Podman, EKS, OpenShift

SDLC/Automation: Git, GitLab CICD, Jenkins, ArgoCD, Maven, Ansible Tower, SonarQube, uDeploy

Platforms: AWS, RHEL

Service Management: ServiceNow, Jira, Confluence

Certifications: AWS Certified Cloud Practitioner (May 2022)

EXPERIENCE

The Cigna Group/Evernorth Health Services | TECDP Lead Analyst June 2021 – Present

Digital DevSecOps Engineer:

- Built, managed, deployed, and troubleshooted multi-region AWS cloud infrastructure using Terraform, ensuring compliance with enterprise governance and allowing delivery partners to maintain focus on their key competencies.
- Created Elastic Kubernetes Service (EKS) deployments and self-service pipelines to accelerate the delivery of Angular, NodeJS, Java, and Go applications using Helm, Terraform, and GitLab CICD.
- Implemented the Cloudability metrics agent controller into EKS clusters using Helm and Terraform to gain visibility on cluster usage and guide cost-saving directives.
- Outfitted a notification step into digital deployment pipelines to notify production support of changes being actively deployed into production environments using Gitlab CICD, YAML, and Bash.
- Instrumented a process to replicate AWS S3 buckets to other AWS accounts using Terraform while providing an easy-to-use JSON interface, allowing developers to easily enable replication and configure destinations.

Data Quality and Tools Software Engineer:

- Built a deployment pipeline to deploy HQL files to Hadoop, automate testing, safeguard production workflows from failures using Conduit (in-house pipeline language), Bash, Python, and UDeploy.
- Utilized object-oriented programming and multi-threading in Python to generate CSV files as part of a departmental migration from an Oracle database to a REST API as a source of reference data.
- Modified database security schemas using SQL and Python to ensure cloud data could be viewed in Teradata to uphold data governance best-practices and enable security views across the organization.

Big Data Ingestion Software Engineer:

- Architected and executed a migration of code bases from GitLab to GitHub, which involved refactoring Python APIs, managing repositories' branch rules and webhooks, and updating security tokens in infrastructure; Concluded the migration, ensuring critical uptime, seamless transition, and 0 application blackouts for end users.
- Integrated unit tests and environmental checks to pass CI/CD pipeline standards so code can be certified for deployment into lower and upper environments.
- Created a process to move data from tables in Hadoop to an AWS S3 bucket using Python, Bash, AWS Athena, and AWS Glue as part of a temporary data storage solution in the cloud.
- Enabled a workflow for data engineers to utilize ingestion of a subset of tables by allowing a custom WHERE clause on incremental data loads, reducing workflow execution times and retaining data quality for downstream users.

The Cigna Group | Big Data Infrastructure Engineer Intern

May 2020 – June 2021

- Utilized the Cloudera Manager (CM) Python API to get updated schemas and roles on services in CM to dynamically generate ansible host files for environment-wide automation tasks in Big Data clusters.
- Administered servers through Linux CLI and Cloudera Manager to provide robust infrastructure operations to end-users in the Data Lake.
- Automated a daily health dashboard which organized information on 1,200+ Hadoop servers to coordinate and assist with RHEL upgrades on environments using Python, HDFS, Hive, and Looker.

EDUCATION

University of Connecticut | Storrs, CT

Bachelor of Science in Engineering, May 2021

Major in Computer Science and Engineering; Minor in Ornamental Horticulture