Mawuena KODZO

DevOps / SRE Consultant

AREA OF EXPERTISE

TECHNICAL SKILLS

Cloud Platform: Microsoft Azure, Google Cloud Platform
Langages: Python, Bash, Yaml
Framework: Flask
Outils Techniques: Datadog, Grafana, Helm, Kubernetes, Gitlab, Jenkins

FUNCTIONAL SKILLS

- Organizational skills
- Rigorous work ethic
- Commitment and leadership
- Communicative
- Creative

DEGREES & TRAINING

March 2024: Google Cloud Platform Google Compute Engine Architecture - *SQLI*

January 2024: Google Cloud Platform Infrastructure Fundamentals - *SQLI*

August 2022: Fortinet Network Security NSE2 - *Fortinet Institute*

July 2022: Advanced Technician's Certificate in IT - *FORMATEC*

June 2022: Automation with Python by Google IT - *Coursera*

KEY PROFESSIONAL EXPERIENCE

Thales Digital Factory – SRE & Observability Consultant – (05/2024 – 11/2024)

Context: I joined the Cross Tribe Operation team to monitor associated infrastructures based on AKS. In this context, the main tool used for monitoring is Datadog

Responsibilities

- Defined Critical User Journeys for the Kubernetes as a Service (K8SaaS) product
- Created Service Level Objectives (SLOs) and Service Level Indicators (SLIs)
- Collected and sent Jfrog Artifactory logs to Datadog
- Automated recurring tasks:
    - Incident synchronization between Datadog, ServiceNow, and Pagerduty
    - Pagerduty schedule automation via REST API
    - Automated SLO and SLI documentation generation
- Developed technical documentation

Deliverables

- Supervision cockpit dashboard for K8saaS and its subcomponents
- SLO and monitors for K8saaS
- SLO and SLI documentation
- GitLab Pipelines supervision dashboard

Technical Environment: Datadog, Azure, Kubernetes, GitLab, Artifactory, Jira, Helm, Python

CARREFOUR – DevOps / SRE Observability – (02/2023 – 02/2024)

Context: Served as a consultant in Carrefour's Observability team, working on the specification, development, and documentation of technical-functional data flows across various domains.

Responsibilities

- Specified and documented key metrics for various technical-functional data flows
- Enhanced data flow logging: qualification and enrichment of logs
- Developed CI/CD pipelines for deployment and dashboard updates with Jenkins
- Automated processes with Python and Docker
- Implemented alerting on different flows
- Established observability on client data flows
- Developed a monitoring dashboard for data flows on Grafana
- Managed data flow issues with Jira in Run mode
- Migrated repositories from Bitbucket to GitLab
- Wrote documentation on flows and various pipelines in Confluence

Deliverables

- Data flow monitoring dashboard covering Carrefour entities in France and internationally
- Dashboard deployment pipelines
- Application repository (Finance and HR portal)
- Technical documentation

Technical Environment: Grafana, ELK, Logm, Nifi, Bitbucket, Confluence, Docker, CI/CD (Jenkins), Python Scripting, Maven

NIKSCONSULTING – DevOps Cloud – (06/2022 – 09/2022)

Context: I was a backend developer and cloud infrastructure manager for DigitalOcean and Google Cloud Platform (GCP).

Responsibilities

- Designed and implemented CI/CD pipelines with Jenkins for client application deployment
- Configured and managed cloud environments for development, staging, and production
- Created and managed GitHub repositories, enforcing best practices
- Monitored deployed applications on GCP VMs and DigitalOcean droplets via Datadog and Sentry
- Setting up CPU usage and disk space alerts via email and SMS for cloud resources
- Developed a backend for a flight booking app using the Flask Python framework
- Redesigned the WindowstoJapan website

Deliverables

- Migration pipeline for WindowstoJapan to DigitalOcean
- Migration and rollback process documentation
- Initial backend version of FlightSearch based on the Skyscanner API
- Prakriti, an avatar generator built with Flask

Technical Environment: Linux, VMWare, Git/Github, CI/CD (Github Action/Jenkins), API(Sentry/Datadog), Bash, Flask/Python, JavaEE, Maven, MySQL/MariaDB, PostgreSQL, Redis, PuTTY, Cloud (DigitalOcean et GCP)

SAVEUP Technologies – Developer / DevOps – (09/2019 – 08/2020)

Context: I was responsible for deploying new websites and IT solutions within the integration team. I developed the company website, the backend (PHP), and the frontend (ReactJS) for various company client web applications.

Responsibilities

- Developed observability and monitoring tools using Grafana, Kibana, and Elasticsearch
- Designed and implemented CI/CD pipelines (Jenkins)
- Created and maintained YAML files for Docker-deployed applications
- Utilized cloud environments for development, staging, and production (AWS, Azure, on-premise)
- Set up and configured Kibana for application monitoring
- Integrated Elasticsearch as a search engine
- Automated application testing using Selenium and Chromedriver
- Wrote Ansible Playbooks with Python SSH as a wrapper to manage AWS node configurations and tested Playbooks on AWS instances with Python
- Developed websites with Laravel/CodeIgniter frameworks

Deliverables

- Kibana dashboard for application monitoring
- Ansible Playbooks
- Deployment pipeline for client applications
- SaveupTechnologies website (Frontend + Backend)
- Selenium test suite
- Technical documentation

Technical Environment: Git/Github, Ansible & Python, Selenium, Jenkins, Grafana, ELK, Docker compose, Cloud (Azure, AWS), PostgreSQL

ANDROCEL – Développeur Web – (09/2018 – 09/2019)

Context: I joined a digital communication agency as a junior web developer (backend and frontend), including configuring hosting environments for various websites.

Responsibilities

- Designed UML diagrams and created databases
- Created and maintained YAML files for Docker-deployed applications
- Developed client websites
- Wrote bash scripts for VM status notifications (CPU and disk saturation)
- Set up backups via Cron tasks
- Deployed applications on Google Cloud Platform and Heroku

Deliverables

- Redesign of the Androcel website
- Backend for SMSBuzz, an SMS campaign management application
- Deployment pipeline on Google Cloud Platform
- Python scripts and Cron jobs
- Technical documentation

Environnements techniques : Laravel/CodeIgniter, Bootstrap, Git/GitHub, Bitbucket, Bash, Cron, PuTTY, Docker/Docker Compose, Wordpress/Joomla, Angular, Cloud (GCP, Heroku)