**Josephine Zola**

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Open to Relocate/Remote/Hybrid/Contract work

# PROFESSIONAL SUMMARY

* Growing up in a TV-free household, I developed a love for puzzles, sparking my interest in automation and security. This led me to embark on self-financed learning journeys, such as becoming a **System Administrator** whilst being a full-time student, transitioning to a role as **Junior DevOps Engineer** to today as a **Kubernetes Administrator** working on projects that are the intersection of AI and software engineering.
* **A proactive, analytical, and versatile professional** with diverse experience brainstorming and developing solutions for complex business problems in a variety of industries and domains.
* **I’m a team player**. I value building solid and honest relationships with clients and colleagues at all levels of organizations.

# EXPERIENCE

***Platform Engineer, Sigma Financial AI Aug 2023 – May 2024***

* Designed and maintain CI/CD pipelines to automate the build, test, and deployment processes with Github CI.
* Developed metrics and maintained monitoring and observability solutions using tools like Datadog.
* Inspected and built Kubernetes clusters improving system reliability/security by 90%.
* Integrated Helm charts for definition of Kubernetes resources.
* Built dedicated Rust Docker Files for increased security and code quality.
* Led the successful migration for 110+ servers from on-premises to AWS (EC2 & RDS) cloud-based infrastructure, resulting in a reducing operational cost by 30%.
* Configured/Troubleshooted Kubernetes CNI plugin-related failures.
* Monitored and troubleshooted pipeline failures, health and states of services and applications (Kubernetes pods/containers) across different environments ensuring minimal downtime.

***Jr DevOps Engineer, Unisys Feb 2020 – May 2022***

* Identified and eliminated manual, repetitive tasks through automation, develop Python scripts and used Terraform to automate infrastructure management, configuration, and maintenance.
* Build DevOps pipeline with Jenkins and Github CI.
* Create Network policies to control pod communication with various network entities.
* Improved build speed by 40% by implementing AWS ECR Pull-through Cache.
* Built Lambda functions to create alerts integrated with Github webhook.
* Built application performance monitoring and alerting dashboards on DataDog resolving over 100 system issues.
* Automated the provisioning of AWS compute services (EC2, ECS) using Terraform for faster deployment and rollback resulting in a 30% increase in system efficiency.

***System Administrator, Howard University Mar 2018 – Mar 2019***

* Collaborated with developers to establish practices for deploying and managing apps. Help them use containerization tech such as Docker and Nomad for reliable and scalable app deployment.
* Created bash scripts/helm charts for a automated provisioning of Kubernetes resources.
* Managed Kubernetes clusters/EKS to optimize scalability and availability.
* Monitored user accounts and modified user permissions in IAM Roles to improve security.
* Maintained detailed documentation of infrastructure and configurations.
* Troubleshooted and diagnosed and remediated technical issues (system downtime, network failures, latency issues, build errors.)

# EDUCATION

***Master’s Degree, Information Technology & Project Management* August 2023**

University of Maryland

***Bachelor’s Degree, Human Health and Performance* May 2020**

Howard University

**Certified Kubernetes Administrator (CKA)**  In Progress

# SKILLS

Kubernetes, Github Actions, Docker, Terraform, Python, Communication, Leader

# LANGUAGES

English, French, Spanish, Swahili(basic)

**VOLUNTEER WORK**

* DevOps Days Nairobi: on-site volunteer to assist with day events June 2024
* HU Center for Sickle Cell Disease: Designed informational pamphlets Sept 2020