Kwamae K. McPherson

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Summary

Senior Site Reliability Engineer with 7+ years of experience in cloud infrastructure, DevOps, and software reliability. Proven track record of leading complex, high-impact initiatives that improve system stability, performance, and cost efficiency (achieved significant AWS cost savings and performance gains). Strong collaborator and mentor with excellent communication skills, committed to continuous improvement and adoption of best practices.

Experience

Webflow Inc | Senior Site Reliability Engineer   Dec 2022 –Present

- Led a company-wide Kubernetes EKS cluster upgrade across nearly all engineering teams, improving cluster stability and maintainability while achieving ~$10K in monthly AWS cost savings.
- Optimize Kubernetes resource utilization across multiple services by analyzing usage patterns and eliminating inefficiencies; leveraged Certified Kubernetes Administrator (CKA) training.
- Expanded global Kubernetes deployments, resulting in an impressive 40% reduction in Time to First Byte (TTFB) on a global scale.
- Refined Datadog alert configurations, reducing alert volume by ~30% and improving incident response.
- Cut AWS network costs by ~$46K/month by analyzing NAT traffic and proposing a Datadog PrivateLink solution to replace public and cross-AZ data paths.
- Manage 24/7 on-call response and drove adoption of Rootly for incident coordination.
- Simulate DDoS attacks using AWS Distributed Load Testing to strengthen platform resilience.
- Redesigned technical interview process and contributed to company-wide interviewer training.
- Drive the development of critical Infrastructure as Code (IAC) projects in Pulumi.

Garmin International | Site Reliability Engineer II   May 2021 – Dec 2022

- Coordinated complex releases into production environments, ensuring smooth deployments.
- Built servers using VMware and cloud infrastructure to support scalability.
- Managed CI/CD pipelines across development environments; automated processes using Bash, Groovy, and Python.
- Provided software configuration management across development teams.
- Built Grafana dashboards for system visibility; tracked work via Jira.

Commerce Bank | Senior Application Support Engineer   **Feb 2020 – Apr 2021**

- Installed, configured, and maintained operating systems and management tools.
- Created custom SharePoint 2016 applications using SharePoint Designer.
- Automated configurations using Puppet; managed Azure DevOps repos and permissions.
- Monitored apps with Nagios and ELK Stack to proactively address issues.

Oracle Cerner | Senior Interface Engineer   **Aug 2017 – Feb 2020**

- Led interface implementations for commercial and government healthcare systems.
- Worked with HL7 messages (ADT, ORM, ORU, etc.) for system integration.
- Enhanced system efficiency via scripting and performance analysis.
- Coordinated with clients and stakeholders for planning and integration.

Freelance Projects

- Lyfecyle Payments - implemented a CI/CD pipeline using AWS CodePipeline; Collaborated directly with the CTO to align cloud architecture with business objectives and drive technical strategy.

- Covenant Pay – Dockerized Laravel API deployments on AWS; created architecture docs and Lambda automation.

- CalcuTrack – Designed and implemented AWS architecture with EC2, ECS, RDS, Fargate, and CloudFormation; enhanced monitoring with CloudWatch and GuardDuty.

Education
Georgia State University – B.B.A. in Computer Information Systems, 2017

President, International Student Associations Council | Member, Delta Sigma Pi

Skills
Programming/Scripting: Typescript, Python, Groovy, Java, SQL, Bash, HTML, CCL
DevOps & Cloud: AWS (EC2, S3, RDS, VPC, CloudFormation), Azure DevOps, Docker, Kubernetes, Terraform, Puppet, Ansible, Jenkins, CI/CD (GitHub Actions, GitLab CI/CD)
Monitoring & Tools: Grafana, Datadog, ELK Stack/OpenSearch, Cloudflare, HAProxy, Nginx, AppDynamics, Zabbix, Nagios, Git, Linux & Windows OS, MySQL, MSSQL

Certifications
AWS Certified Solutions Architect – Associate

PagerDuty Incident Responder (Event Intelligence)

AWS Certified Developer – Associate

Certified Kubernetes Administrator (In Progress)