Zach Perkins

Cloud & DevOps Engineer

👤 Profile

I'm an experienced cloud & devops engineer with in-depth work experience in AWS and Azure. Whether it's building out Kubernetes clusters using infrastructure-as-code tooling or automating jobs through Lambdas or step functions or creating CI/CD pipelines which build, test, secure, and deploy application deployments for any use case, I am able to help organizations optimize their platforms for production applications. I look forward to the opportunity to show your organization what I'm capable of!

💼 Employment History

Platform Engineer III at Mindbody - San Luis Obispo, California

July 2022 — July 2023

- Created Lambdas in Python using Pulumi which send REST API requests to the Azure DevOps API for agent pool metrics. This allowed us to see when self-managed agent pools were unavailable or unhealthy.
- Built-out observability of self-managed EKS node infrastructure through New Relic queries and dashboards which connected into the Prometheus stack and allowed the platform team to see the overall efficiency of nodes, pods and ingresses.
- Optimized Docker images for the self-managed Azure DevOps agent AMIs. The customized images utilized custom AMI templates with a Docker image cache that decreases the spin up time of agents by 75%
- Provided consistent support for developers through troubleshooting Helm deployments in the Azure DevOps pipelines and creating tasks in the backlog for broader upgrade suggestions.
- Mentored junior team members on how to develop with Pulumi and resources in AWS, such as EKS, ECS, S3, the EC2 Image Builder, Cloudformation and SSM automation.
- Used Typescript, Pulumi and NPM to develop efficient infrastructure code modules which could be replicated across development and production environments.
- Managed the creation and upgrading of custom NPM libraries through Azure Devops.
- Configured CI/CD templates for developers in Azure DevOps, allowing developers to run their infrastructure within a "you build it, you run it" devops model.
- Wrote technical design specifications and goal gate documentation for platform projects.

DevOps Engineer at Fusion Medical Staffing - Omaha, Nebraska

Details

402-871-3071
partofaplan@gmail.com

Links

LinkedIn
Github
DockerHub

Skills

Linux

Windows

AWS

Azure

CI/CD

Docker

Git

Pulumi

Terraform

Ansible

Languages

Python

Bash

Powershell

Typescript

- Contributed to the design and migration of production services from Azure App Service to Azure Kubernetes Service in order to move us to blue/green deployments on the Fusion Marketplace app.
- Wrote infrastructure code in Terraform and Terragrunt which built out the AKS clusters in Azure using ADO CI/CD pipelines
- Setup mobile release pipelines for Fusion Marketplace native app to Apple and Google Play stores.
- Onboarded our tech stack to Dynatrace APM, infrastructure and network monitoring which increased our scope of observability and minimized downtime incidents..
- Ensured the solid build and deployment of application resources in CI/CD pipelines so that building, testing and security were integrated into each of the application deployments.
- Dockerized web services and automated their deployments into the ADO pipelines.
- Created Kubernetes cluster which hosted scaleable self-managed ADO build agents.
- Administered SendGrid accounts and integrations to greater utilize API for data and metrics monitoring.
- Wrote API automation scripts to move changes to Cloudflare into IaC.
- Consultant for dev teams on enabling their CI/CD processes, IaC build-outs and helping them learn how to make configuration changes.
- Evangelizing DevOps processes and making recommendations on removing bottlenecks and improving automated workflows.

DevOps Engineer II at Spreetail - Omaha, Nebraska
December 2020— June 2021

- Developer of Azure cloud resources, including VMs, AKS, network, security policies and automation.
- Developed Terraform code to enable patching and hardening of VMs.
- Configured Azure network and permissions, such as application gateway pools, user policies and rules.
- Administration of RBAC and security policies for dev teams.
- Version controlled Terraform code and Powershell scripts using Git.
- Developed CI/CD pipelines which updated base images for auto-scaling VMs and containers in Gitlab.
- Developed Azure automation playbooks using Powershell, Python and Bash.
- Developed KQL queries for reporting Azure resource status and configuration.

Infrastructure Automation Engineer at Boys Town – Omaha, Nebraska
December 2019 — December 2020

- Developed reliable automated workflows for service delivery of VMs and applications using vRealize Automation, Rundeck, and Powershell.
- Developed Azure cloud app deployment pipelines for integration with the CI/CD pipeline web applications.
- Upgraded Splunk infrastructure.
- Upgraded VMware automated infrastructure.
- Spearheaded integration of vRealize into ServiceNow.
- Upgraded containerization infrastructure, formerly under OpenShift and shifting to PKS.
- Developed automation scripts in Javascript, Python, Bash and Powershell.
- Lead an architecture guild made up of stakeholders, developers, security and operations to create a path for cohesive IT solutions which impact the business.

DevOps Engineer at Proxibid – Omaha, Nebraska
October 2018 — November 2019

- Developed CI/CD pipelines for web applications featuring a suite of tools that includes Jenkins, Nexus, Docker, Rancher, Ansible, VMware and AWS.
- Upgraded existing high-availability, scalable architecture in AWS.
- Managed network security of web applications through Palo Alto and certificate management.
- Developed and upgraded unified monitoring dashboards and metrics scripts which channeled into Datadog and Nagios. Automated deployment and configuration of agents.
- Developed and managed websites on Wordpress platform for hundreds of customers in HTML and CSS.
- Upgraded, patched and troubleshooted VMware resources and ESXi host on an on-call basis.
- Upgraded Atlassian infrastructure (Confluence, Jira and Bitbucket)

Systems Engineer at Northrop Grumman – Omaha, Nebraska
August 2015 — October 2018

- Developed automation for deploying Java applications to Glassfish and Weblogic application servers using Ansible.
- Developed and upgraded scripts for configuring and patching middleware, Glassfish, WebLogic and Apache web servers using Perl and Bash.
- Upgraded Splunk infrastructure.
- Upgraded Atlassian Infrastructure.
- Developed new monitors for capturing key performance metrics in Nagios.
- Participated in security audits of core applications and provided DoD with comprehensive documentation on NIST security compliance of middleware components..
- Performed load testing for applications using JVM and jMeter tools.
- Migrated strategic platform software to AWS cloud and improved platform performance.

❧ Education

Associate's, General Studies, Metropolitan Community College (NE), Omaha

October 2012 — October 2014

Bachelor's of Science, Cloud Computing, Western Governors University, Omaha
October 2017 — October 2021

Certifications

CompTIA, Omaha

 Security+, A+, Network+, Project+, Cloud Essentials

ITIL , Omaha

Foundations

AWS

Certified SysOps Administrator

References

References available upon request