Patrick Nguyen

SENIOR INFRASTRUCTURE ENGINEER

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Certificates

AWS Certified Solutions Architect - Professional
Amazon Web Services
06/2023

Certified Kubernetes Administrator (CKA)
The Linux Foundation
10/2021

Skills

Terraform • Kubernetes • AWS
Azure • Docker • CI/CD Pipelines
Ansible • Python • PowerShell
Networking

Summary

Senior Infrastructure Engineer with 9 years of experience running AWS and Azure platforms for e-commerce and health tech companies at up to 50,000 requests per second. Designs Terraform and Kubernetes platforms, owns CI/CD pipelines for infrastructure, and mentors engineers on Python, Ansible and incident response. Known for cutting cloud cost while raising reliability.

Experience

Senior Infrastructure Engineer 06/2022 - Present
Cascade Cart Commerce Seattle, WA

Online retailer with $900M in yearly sales.

- Lead design of 6 Kubernetes clusters on AWS and Azure that serve peaks of **50,000** requests per second.
- Own Terraform standards and CI/CD pipelines for infrastructure used by 14 product teams.
- Cut setup time for new environments from 2 weeks to 1 day with Docker images and Ansible baselines.
- Mentor 4 engineers and run incident reviews that lowered Sev-1 incidents from 11 to 3 a year.

Infrastructure Engineer 03/2019 - 05/2022
Puget Health Technologies Bellevue, WA

Health tech SaaS provider for 300 clinics.

- Migrated **250** VMware workloads to AWS over 14 months with HIPAA controls written in Terraform.
- Built networking for 3 AWS regions, including Transit Gateway, site-to-site VPN and DNS failover.
- Wrote PowerShell and Python automation that patched 600 Windows and Linux hosts each month.
- Lowered infrastructure costs by 22% with autoscaling and storage tiering.

Systems Engineer 06/2017 - 02/2019
Evergreen Hosting Co. Tacoma, WA

Managed hosting provider for 1,500 customers.

- Ran 400 Linux and Windows servers for 1,500 hosting customers.
- Built Prometheus monitoring that brought missed disk alerts to zero.
- Automated weekly restore tests for 120 customer databases.
- Replaced 3 aging storage arrays with a Ceph cluster holding 200 TB of customer data.

Education

Bachelor of Science 06/2017
University of Washington Seattle, WA
Computer Science