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Summary

DevOps Engineer with 4+ years of hands-on experience in automating workflows, managing scalable cloud infrastructure, and streamlining CI/CD pipelines. Skilled in improving system reliability, reducing manual effort, and driving efficiency across the SDLC. Adept at collaborating with cross-functional teams to deliver robust solutions and optimise operational performance.

Experience

DevOps Engineer, Talentship

08/2023 – Present

- Upgraded a large-scale legacy Jenkins environment from **v2.396 to v2.462**, addressing security vulnerabilities and ensuring a seamless upgrade with no service disruption.
- Performed **RDS certificate rotation** across multiple production database instances, ensuring secure and uninterrupted database connectivity.
- Migrated application infrastructure from **AWS OpsWorks to Amazon ECS**, improving scalability, maintainability, and containerized workload management.
- Migrated ownership of **two production domains with zero downtime**, ensuring uninterrupted service availability.
- Upgraded **Amazon RDS PostgreSQL** instances from **14.10 to 14.15 and 16.1 to 16.6** ahead of end-of-support, maintaining security, compatibility, and operational stability.
- Upgraded **Java from 17.0.7 to 21.0.2** and **Apache Tomcat from 9.0.85 to 10.1.23**, improving security, performance, and platform compatibility.
- Migrated domains from **Cloudflare to AWS Route 53 and Amazon CloudFront**, implementing **AWS WAF** controls to improve security and global content delivery.
- Reduced **AWS cloud costs by approximately 16% across 15 accounts** through resource optimization, instance rightsizing, idle-resource decommissioning, Reserved Instances, and Savings Plans.
- Implemented **AWS Shield Advanced and AWS WAF** protections against malicious traffic, including bot activity, SQL injection, web scraping, and DDoS attacks.
- Integrated **Trivy and Checkov** into security workflows to identify vulnerabilities and infrastructure misconfigurations, and remediated OS and container-image CVEs.
- Designed and provisioned **highly available and secure AWS infrastructure using Terraform**, incorporating Auto Scaling and cloud security best practices.
- Built reusable **Terraform modules** to standardize infrastructure provisioning across multiple applications and environments.
- Implemented **vertical and horizontal scaling strategies** to support peak-season traffic while maintaining application performance and availability.

- Maintained **99.9% availability across 40 production websites**, supporting reliable and highly available customer-facing services.
- Automated repetitive DevOps and operational tasks using **Python and Shell scripting**, reducing manual effort and improving delivery efficiency.
- Leveraged **Claude Skills and GitHub Copilot** to automate operational workflows, documentation, and repetitive engineering tasks.
- Built a **custom AI-powered Incident Bot** that analyzes logs and operational data to accelerate RCA, reducing average investigation time by **50%**.
- Implemented **AI guardrails** to ensure secure, controlled, and compliant use of AI tools within engineering workflows.

DevOps Engineer, Infinite Computer Solutions

03/2023 – 08/2023

- Migrated and hosted **Nokia's on-premises application on Microsoft Azure**, supporting its transition to a scalable cloud-based infrastructure.
- Designed and provisioned the required **Azure infrastructure using Terraform**, enabling consistent and repeatable environment deployments.
- Automated application deployment using **Shell scripting**, reducing manual deployment effort and improving deployment consistency.
- Developed automated **start/stop schedules for non-production environments** during non-business hours, reducing unnecessary Azure resource usage and cloud costs.

Associate DevOps Engineer, Speechmatics

08/2022 – 03/2023

- Developed and maintained **Kubernetes and Kustomize manifests** to standardize and streamline application deployments across environments.
- Deployed containerized applications to **Azure Kubernetes Service (AKS)** using **Argo CD** and GitOps practices, enabling consistent and automated deployments.
- Performed container vulnerability scanning using **Trivy** and upgraded open-source dependencies and tools to remediate identified **CVEs** and improve security posture.
- Built **Datadog dashboards, synthetic tests, monitors, and alerts** to improve application observability and proactively identify availability and performance issues.
- Supported **production releases**, troubleshooting deployment and infrastructure issues while maintaining application reliability and cost-efficient cloud operations.

Education

Computer Science and Engineering,

New Prince Shri Bhavani College of Engineering
CGPA: 8.1

12/2022

Chennai, Tamil Nadu

HSE, C.S.I Corley Higher Secondary School

CGPA: 7.6

12/2018

Chennai, Tamil Nadu

Skills

OS

Linux, Windows

Containerization

Docker, Kubernetes

IaC

Terraform, Ansible

Scripting & Automation

Python, Shell Scripting

Security & Compliance

Microsoft Defender for Cloud, AWS Security Hub, GuardDuty, Trivy, Checkov, Prowler, AWS WAF, AWS Shield Advanced

AI & Automation

GitHub Copilot, Claude Skills, AI-assisted Operations, Incident/RCA Automation

Cloud

AWS, Azure

CI/CD

GitLab CI, GitHub Actions, Jenkins, Azure DevOps, Argo CD

Databases

PostgreSQL, MySQL, DynamoDB

Web Servers

Nginx, Apache

Monitoring

Datadog, Instana, Checkmk, Pingdom, Grafana, AWS Cloudwatch, Azure monitors, Sentry, Zenduty

Language

• English

• Tamil

Certifications

AWS Certified Solutions Architect – Associate

Expires Mar 2027

Microsoft Certified: Azure Administrator Associate

Expires Dec 2026