

KANNAN K

DEVOPS ENGINEER

CONTACT

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PROFILE SUMMARY

3+ years of hands-on experience in AWS and DevOps practices, I am a seasoned professional adept at optimizing cloud infrastructure and automating deployment pipelines to enhance organizational efficiency. My expertise lies in leveraging AWS services to architect scalable, secure, and cost-effective solutions while implementing DevOps principles to streamline development workflows. With a passion for innovation and a commitment to continuous learning.

EDUCATION

2017 - 2021
B.E MECHANICAL ENGINEERING
University college of Engineering
Dindigul

SKILLS

Cloud Platform: Microsoft Azure, Amazon Web Services (AWS)
AWS: EC2, S3, RDS, Lambda, VPC, IAM, Route 53, CloudFront, CloudWatch, Auto Scaling, ELB
Infrastructure as Code (IaC): Terraform, AWS CloudFormation
Containerization & Orchestration: Docker, Kubernetes
Networking & Security: AWS Security Groups, NACLs, VPN, VPC Peering, WAF, AWS Shield
Version Control: Git, GitHub
CI/CD Pipelines: Jenkins, AWS CodePipeline
Monitoring & Logging: Prometheus, Grafana, ELK Stack, AWS CloudWatch, Splunk
Programming & Scripting: Python, Bash, PowerShell, AWS Lambda
Database: MySQL
Project Management Tool: Jira

WORK EXPERIENCE

Accel IT Services DEC 2021 - PRESENT
System Engineer

ROLES AND RESPONSIBILITIES

- **Design, deploy, and manage** scalable, highly available, and fault-tolerant AWS infrastructure using **EC2, S3, RDS, Lambda, VPC, IAM, Route 53, CloudFront, CloudWatch, Auto Scaling, ELB**.
- **Automate infrastructure provisioning** and management using Terraform and **AWS CloudFormation**.
- Implement configuration management and automated deployments with **Ansible, AWS Lambda, and PowerShell**.
- Deploy and manage **containerized applications using Docker and Kubernetes (EKS)**.
- Design and implement secure **VPC architectures**, including **VPC Peering, VPN, Security Groups, and NACLs**.
- Implement and maintain **CI/CD pipelines** using **Jenkins, AWS CodePipeline, and GitHub Actions** to automate build, test, and deployment processes.
- Manage source code repositories using **Git and GitHub**, enforcing branch strategies and code reviews.
- Configure real-time **monitoring, logging, and alerting** using **AWS CloudWatch, Prometheus, Grafana, ELK Stack, and Splunk**.
- Develop **automation scripts using Python, Bash, and PowerShell** to improve operational efficiency.
- Manage and optimize **MySQL databases in AWS RDS** for performance, security, and high availability.
- Use **Jira for sprint planning, issue tracking, and task management** within an **Agile/Scrum framework**.
- Work closely with development, QA, and operations teams to enable a DevOps culture and streamline workflows.

PROJECTS:

Clydesdale Bank (Banking)

- **CI/CD Pipeline Implementation:** Design, develop, and maintain **CI/CD** pipelines using tools like Jenkins, GitLab CI/CD, or GitHub Actions to ensure smooth, automated deployments.
- **Infrastructure as Code (IaC):** Write and manage infrastructure using **Terraform/CloudFormation** to provision and maintain scalable cloud resources (**AWS/Azure/GCP**).
- **Monitoring & Logging:** Set up and maintain monitoring (e.g., **Prometheus, Grafana**) and logging (e.g., **ELK, Loki, CloudWatch**) systems to ensure observability and issue resolution.
- **Cloud Infrastructure Management:** Support and optimize cloud infrastructure, **handling scaling, cost management**, and system availability.
- **Containerization & Orchestration:** Develop and **manage Docker** containers and **Kubernetes clusters** to ensure high availability and fault tolerance of applications.
- **Security & Compliance:** Implement **DevSecOps** practices including secrets management (**Vault, SOPS**), vulnerability scanning, and access controls.
- **Automation & Scripting:** Automate recurring tasks using **shell scripts, Python, or Ansible** to reduce manual effort and human error.
- **Collaboration & Support:** Work closely with **developers, QA, and operations teams** to resolve **build/release** issues and support agile delivery practices.

Warby Parker (E-commerce)

- **CI/CD Pipeline Management:** Designed and maintained **CI/CD pipelines (Jenkins/GitLab)** to support fast and reliable deployments for microservices used in policy, claims, and customer modules.
 - **Cloud Infrastructure Support:** Deployed and managed scalable infrastructure on **AWS** using **EC2, S3, RDS, and Load Balancers** to support insurance applications and **APIs**.
 - **Infrastructure as Code (IaC):** Implemented infrastructure **automation** using **Terraform** and **Ansible**, ensuring consistency across development, QA, and production environments.
 - **Containerization & Kubernetes:** Containerized insurance services using **Docker** and deployed them into **Kubernetes clusters**, **improving environment** consistency and scalability.
 - **Monitoring & Alerting:** Configured monitoring dashboards (**Prometheus + Grafana**) and integrated alerting (**via Slack/Email**) for real-time visibility into system health and SLA adherence.
 - **Security & Compliance Integration:** Ensured **DevSecOps** practices were followed, including integration of security scans in **pipelines** and enforcing **IAM** roles aligned with insurance compliance (e.g., **HIPAA, ISO**).
 - **Disaster Recovery & Backup Automation:** Automated daily backups and tested DR plans for policy data and customer records stored in **RDS and S3**, minimizing data loss risk.
 - **Collaboration with Cross-functional Teams:** Worked closely with **QA, developers, and business analysts** to support **agile sprints, troubleshoot** release issues, and ensure timely delivery of insurance features.
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