

KANNAN K

DEVOPS ENGINEER

CONTACT

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 Chennai, Tamil Nadu

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

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

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.

WORK EXPERIENCE

Accel IT Services

DEC 2021 - PRESENT

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.