

VASANTH RAJ RAJARAJAN

AWS & DevOps Engineer

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SUMMARY

AWS & DevOps Engineer with 5.6+ years of experience in IT Infrastructure, including 4+ years of hands-on DevOps and AWS cloud engineering. Proven expertise in designing, automating, and maintaining CI/CD pipelines, cloud-native infrastructure, containerized workloads, and monitoring systems. Strong focus on automation, reliability, security best practices, and scalable architectures in production environments.

SKILLS

Cloud Platforms: AWS (EC2, Auto Scaling, ELB, S3, VPC, Route53, IAM, RDS, DynamoDB, EBS, Redshift, EKS)

DevOps & CI/CD: Jenkins, GitHub Actions, AWS CodePipeline, Maven, CI/CD Pipelines

Infrastructure as Code: Terraform, AWS CloudFormation, Ansible

Containers & Orchestration: Docker, Kubernetes, Helm, Amazon EKS

Monitoring & Logging: Prometheus, Grafana, SonarQube

Version Control: Git, GitHub

Operating Systems & Scripting: Red Hat Linux, Bash, Python

EXPERIENCE

Independent DevOps Consultant	September 2024 – Present
Devops Engineer Merit Nano Digital Solutions Chennai	April 2022 – August 2024
Associate DevOps Engineer Merit Nano Digital Solutions Chennai	July 2020 – April 2022
Technical Support Engineer Merit Nano Digital Solutions Chennai	January 2019 – June 2020

PROJECTS

Freelance Projects

- Designed and implemented end-to-end **CI/CD pipelines** using Jenkins and GitHub Actions for containerized applications.
- Provisioned and managed **AWS infrastructure using Terraform**, including VPCs, EC2, ALB, Auto Scaling Groups, and EKS clusters.

- Built and optimized **Docker images** and deployed workloads on Kubernetes with rolling and blue-green deployment strategies.
- Implemented **monitoring and alerting using Prometheus and Grafana** to improve system reliability and uptime.
- Applied **AWS security best practices**, including IAM roles, security groups, and least-privilege access controls.
- Designed and implemented **disaster recovery strategies** using AWS multi-AZ architecture, backups, and automated recovery workflows, **optimizing costs by avoiding always-on standby resources**.

DevOps Engineer – Meril Life – Merit Nano Digital Solutions

- Designed, implemented, and maintained **CI/CD pipelines** using **Jenkins, AWS CodePipeline, Maven, and GitHub**, reducing manual deployment effort and improving release reliability.
- Automated **infrastructure provisioning using Terraform and AWS CloudFormation**, ensuring consistent and repeatable deployments across environments.
- Developed and optimized **Dockerfiles**, reducing image size and improving container startup times.
- Deployed and managed **Kubernetes workloads on Amazon EKS**, including Helm-based deployments and Kubernetes security configurations.
- Implemented **monitoring and alerting solutions** using Prometheus and Grafana to track system health and performance.
- Integrated **SonarQube** into CI pipelines to enforce code quality and security standards.
- Automated routine operational tasks using **Python and Bash**, improving operational efficiency and reducing errors.

Associate DevOps Engineer – Virtual Health – Merit Nano Digital Solutions

- Designed and deployed a secure and scalable AWS infrastructure by configuring **EC2 instances** within a **VPC**, utilizing custom subnets and security groups, and integrating **RDS** for reliable and optimized database management, ensuring high availability and performance across all application layers.
- Managed and maintained code repositories using **Git and GitHub**, ensuring version control and collaboration efficiency.
- Created and maintained **Jenkins pipelines** for automated builds, testing, and deployments, reducing manual intervention and increasing deployment frequency.
- Automated the provisioning and configuration of servers using **Ansible playbooks**, ensuring consistent environments across multiple stages of development. Developed and maintained **Ansible** roles for reusable and modular configuration management, enhancing deployment efficiency and reducing configuration errors.
- Enforced security best practices by configuring **IAM policies, security groups, and VPC configuration**.
- Developed an integrated CI/CD pipeline using **Terraform** for infrastructure provisioning, **Maven** for automated build and dependency management, and **SonarQube** for continuous code quality analysis, ensuring secure, maintainable, and reliable deployments across multiple environments.
- Automated the provisioning and scaling of Kubernetes clusters on AWS using EKS, optimizing resource usage and reducing infrastructure management overhead.
- Developed **disaster recovery plans** to ensure data durability and quick recovery in case of failures.

EDUCATION

Bachelor of Technology in Civil Engineering

- 7.66 CGPA • Periyar Maniammai University • Periyar Nagar, Vallam, Thanjavur, Tamil Nadu • 2017