

VASANTH RAJ RAJARAJAN

AWS & DevOps Engineer

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SUMMARY

Having **5.6 years of overall experience in IT Infrastructure** with **4+ years as a DevOps Engineer** with extensive expertise in **AWS cloud services** in supporting, automating, and optimizing deployments, leveraging configuration management, CI/CD, and DevOps processes.

SKILLS

AWS cloud services: EC2, ELB, ASG, S3, VPC, ROUTE 53, IAM, RDS, DYNAMO DB, EBS, REDSHIFT, & EKS.

Version Control: Git, GitHub.

Containerization and Orchestration: Docker & Kubernetes.

CI/CD: Jenkins, Maven (Build Automation), Ansible (Configuration Management), Terraform (Infrastructure as Code), SonarQube (Code Quality and Security).

Monitoring and Logging: Prometheus, Grafana.

Operating Systems & Scripting Languages: RedHat Linux, Python, Bash Scripting.

EXPERIENCE

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 Solution
Chennai

January 2019 - June 2020

PROJECTS

Meril Life

Merit Nano Digital Solutions

- Efficiently managed and maintained **Git repositories**, ensuring code integrity and collaboration across multiple development teams. Managed **GitHub repositories** for multiple projects, including code reviews, pull requests, and repository permissions to ensure secure and efficient code collaboration.
- Designed, developed, and maintained **CI/CD pipelines** using **Jenkins** and **AWS Code Pipeline**, automating the build, test, and deployment processes and managed various Jenkins plugins to enhance functionality to enhance efficiency and reliability.
- Developed and optimized **Dockerfiles** for building efficient **Docker** images, reducing image sizes and improving container startup times.
- Utilized **Terraform** and **AWS Cloud Formation** to provision and manage infrastructure, ensuring consistent and repeatable deployments. Managed **Terraform state files** to ensure consistency in infrastructure deployments across multiple environments, enabling safe and predictable infrastructure changes.
- Implemented automated deployment strategies in **Kubernetes** using Helm charts and custom resource definitions (CRDs), streamlining the release process.
- Generated detailed reports and dashboards using **SonarQube**, providing developers and stakeholders with actionable insights into code quality metrics and trends, facilitating informed decision-making.
- Implemented **IAM roles**, network policies, and security groups in **EKS** to enforce security best practices, ensuring a

secure and compliant Kubernetes environment.

- Implemented monitoring solutions using **Prometheus** and **Grafana**, creating dashboards and alerts to ensure system health and performance.
- Automated routine tasks with **Python & Bash scripts**, improving workflow efficiency and reducing manual intervention.

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