SAI KALYAN
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PROFESSIONAL EXPERIENCE

Southwest Airlines, Dallas, TX

Cloud DevOps Engineer   **June 2023 – Present**
- Build and maintain **Southwest Airlines'** main system for tracking and settling international payments using **AWS**.
- Designed fast and secure solutions to handle real-time payment messages.
- Used CloudFormation and **Ansible** to automate setting up servers, making deployments more reliable.
- Worked with dev and ops teams to improve **CI/CD pipelines** using **AWS** Code Build and Code Deploy, reducing errors and downtime.
- Set up monitoring and alerts with **CloudWatch**, Prometheus, and **Grafana** to quickly catch and fix issues.
- Improved system speed with multi-threaded processing and made sure all messages were exchanged securely.

ZenQ, Hyderabad, India

DevOps Engineer   **Jan 2021- Aug 2022**
- Managed **AWS** services like **RDS, S3**, Route 53, and **EKS** for microservices deployment, using **Jenkins, Docker**, and ECR for automation and containerization. Set up monitoring with Prometheus and Grafana.
- Automated build, testing, and deploying pipelines using **Ansible** and **Jenkins**. Used **Terraform** for scalable resource provisioning in **AWS** and **Azure** and implemented security playbooks to reduce vulnerabilities.
- Automated workflows with **AWS** CloudFormation, Step Functions, and Lambda, streamlining deployments and improving efficiency across environments. Worked with development teams to ensure continuous deployment and smooth infrastructure management.

Zensar Technologies, India

DevOps Engineer   **June 2019- Dec 2020**
- Designed and managed **Azure DevOps** pipelines using **ARM** templates, standardizing deployments across teams.
- Automated microservices deployment with **Docker**, **Kubernetes,** and **Helm**, improving system scalability and resource efficiency.
- Developed **PowerShell** and Bash scripts to automate system tasks and ensure cross-platform consistency.
- Streamlined application deployment by containerizing services with Docker, setting up dynamic routing and load balancing using **Nginx** on Kubernetes (EKS and AKS), and automating cloud infrastructure with tools like Terraform, **CloudFormation**, and **Azure Resource Manager**
- Set up monitoring systems with Grafana for cloud infrastructure, **Kubernetes clusters**, and microservices, ensuring performance optimization and quick issue resolution.

ACADEMIC EXPERIENCE

Pace University, New York, USA   **2022 – 2024**

PROJECTS

- **Hospital Management System:** I developed a **full-stack** application for managing **hospital** operations, including patient registration, appointment scheduling, and staff management. The frontend was built using **React.js** to create a user-friendly interface for both patients and hospital staff. The backend, powered **by Node.js**, Express, and **MongoDB**, handled all the data storage and **API** interactions. I implemented secure authentication using JWT to ensure patient data privacy. Additionally, I optimized the application's performance and deployed it on **Azure Cloud** for scalability plication in **Azure** Cloud.

CERTIFICATIONS

- **Certified AWS Developer – Associate**

SKILLS

Languages:	Python, SQL, Java, Shell, Bash, YAML
OS & IAC Tools:	Linux, OS, Windows, Ubuntu, Terraform
Tools:	Nexus, Terraform, Bitbucket, GitHub, JIRA, Agile, Kafka, AWS Services, Azure Services
Database & Others:	SQL, PL/SQL, DBMS, Oracle, MongoDB
DevOps:	Docker, Kubernetes, Git, Jenkins, Apache Airflow, CI/CD, JIRA, Postman, Linux, Ansible, Helm