

# VISHNU SAI

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## Professional Summary

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DevOps Engineer with 2+ years of expertise in designing and managing CI/CD pipelines, containerized applications, and cloud infrastructures. Proficient in AWS, Kubernetes, Docker, and Terraform with strong skills in automation, monitoring, and cloud cost optimization. Adept at improving system reliability, scalability, and security across multi-cloud environments.

## Technical Skills

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Cloud	Amazon Web Services (AWS)
Container & Container Orchestration Tools	Kubernetes, Docker,
Infrastructure as Code (IaC)	Terraform
Monitoring Tools	Prometheus Grafana, AWS CloudWatch, ELK, Promtail, Loki Grafana,Blackbox Expoter
CI/CD Tool	Jenkins, GitLab Ci/CD, GitHub Action
Version Management Tools	GIT, GitHub, GitLab
SAST Tool	SonarQube, Synk ,
Artifactory	JFrog, Nexus,
Build Tools	Maven
DAST tools	OWASP ZAP security vulnerabilities web applications and APIs
AI/MLOPS	AWS Lexa, Amazon Bedrock, Amazon SageMaker AI ,
Operating System	Linux, Ubuntu, Windows,
Databases	MongoDB RDS Backup &Restore
Security Tools	DEPENDENCY CHECK, TRIVY, GitLeaks ,HarsiCropVault ,
Configuration Management Tools	Ansible,
Languages Known	Python, Shell

## Professional Experience

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### Consultant

Client: **cloudscore.ai**

Apr 2024 – Present

Team size:10

Role: **AWS DevOps Engineer**

The project provides key Worked on designing and implementing a **multi-cloud management solution** to optimize infrastructure costs, improve operational efficiency, and enhance cloud governance. Managed deployments across **AWS, Azure, and GCP**, ensuring scalability, compliance, and **cost savings**. financial insights into DevOps adoption in the Financial Benefits Platform selection advantages and costs associated with hiring qualified **DevOps** talent. Emerging **DevSecOps & AI Trends** Increased usage of cloud computing for scalable infrastructure. Adoption of **serverless** architecture for **cost-effective** operations. Deployment of **Docker** containers and **EKS ECS CLUSTER** to streamline application development and delivery. Additionally, the project highlights: The critical role of QA in ensuring code stability and quality in DevOps work flows. The market value of QA for game development. Proximal industries leveraging DevOps QA techniques to enhance operational performance.

- Built **CI/CD pipelines** using **Jenkins and GitLab** to streamline code deployments and reduce release times.
- Automated provisioning and configuration management with **Terraform, Ansible, and CloudFormation**, minimizing manual intervention. Applied **FinOps practices** to analyse usage trends, eliminate unused resources, and achieve up to **cost reduction** in monthly bills.
- Integrated monitoring and logging tools (**ELK Stack, Datadog, CloudWatch, Prometheus Grafana** ) to improve visibility and reduce incident response times. Aws budget notification slack notification aws-cost for last month and this month every week cost report
- Collaborated with **cross-functional teams** (IT, Finance, and Security) to align cloud strategy with business objectives.
- Delivered **executive-level reports** on performance, **usage, and cost optimization opportunities**.
- **Cloud Infrastructure** refers to the set of **virtual resources and services compute, storage, networking, databases, monitoring, automation, etc.** provided by cloud vendors like **AWS, Azure, and GCP** that support business applications and workloads.

## Roles & Responsibility

- Designed and implemented Jenkins pipelines to **automate CI/CD workflows**, improving deployment efficiency by. Integrated Jenkins with GitHub authentication for seamless version control.
- Configure Slack to receive real-time **alerts for cloud cost anomalies**. Set up automated delivery of your AWS cost report via **email and slack**. Get cost optimization **recommendations and insights directly in Slack**.
- Resolved build issues, including configuring Maven profiles for consistent application builds.
- Deployed gaming applications in **AWS environments** using Jenkins, maintaining system uptime.
- Coordinated game releases across multiple environments, streamlining the deployment process.
- Provided **AWS and JIRA** credentials to team members, ensuring secure access and user management. Conducted performance testing to optimize application performance.
- Configured and enabled **SonarQube quality gates** through Jenkins pipelines, enhancing code stability
- Managed AWS services, including **IAM, VPC, EC2, Route 53, Elasticsearch, Volumes, Snapshots, SNS, Lambda, ECR, ECS Fargate, and DevOps Tools Code Pipeline**.
- Automated application lifecycle deployment using **Jenkins and GitLab CI/CD GitHub action** reducing manual tasks by 50%.
- Streamlined developer notifications with **AWS SNS for CI/CD workflows**.
- Designed and implemented **AWS CI/CD pipelines (classic and YAML)**, integrating tools like **SonarQube, OWASP, and Trivy**.
- Automated provisioning of AWS infrastructure (**VMs, EKS clusters**) using **Terraform** and cloud formation templates, reducing provisioning time by
- Enhanced application security by **integrating AWS secrets Vault** for managing sensitive credentials. Working on the **DevSecOps** best practices. Improved pipeline efficiency by , accelerating release cycles by days per sprint.
- Monitoring the **Cluster' DEV, PORD, QA** automated deployment using **Argo cd GitOps**

## Key Achievements:

- Improved pipeline efficiency by through optimized build and deployment strategy
- Cloud Cost Optimization: Implemented AWS cost optimization strategies, reducing cloud infrastructure expenses by through **resource right-sizing, auto-scaling policies**, and eliminating unused resources.
- Automated Infrastructure Scaling: Designed auto-scaling mechanisms in **AWS, optimizing cloud utilization and reducing unnecessary compute costs. Notification to Mail And slack**
- Security and Compliance: Improved SonarQube integration to enhance **code quality** and security, achieving a stability rate in production releases.
- **Backup and restore database MongoDB and RDS EBS volumes and EC2 automation script shell python** cross replication, instance termination protection
- Configure Slack to receive real-time **alerts for cloud cost anomalies**. Set up automated delivery of your AWS cost report via **email land slack**. Get cost optimization **recommendations and insights directly in Slack**.

## Trainee DevOps Cloud

Ingenuity Gaming Pvt Ltd

Dec 2021 – Nov 2022

### Project Summary

Implemented DevOps automation for gaming applications to improve deployment reliability and reduce release time. The project involved building CI/CD pipelines, enforcing code quality, and deploying containerized applications on cloud platforms. Focused on improving collaboration between development, QA, and operations teams while supporting scalable and stable application delivery.

### Role & Responsibilities      Trainee DevOps Cloud Engineer

- Assisted in designing and maintaining CI/CD pipelines using **Jenkins and GitLab CI/CD**
- Automated build, test, and deployment workflows to reduce manual effort and errors
- Implemented code quality checks using **SonarQube and** managed artifacts with Nexus
- Containerized applications using **Docker** to ensure consistent deployments and **Infra Terraform** automation
- Managed configuration and environment setup using **Ansible**
- Supported application deployment and scaling using **Kubernetes and AWS ECS**
- Worked closely with development and QA teams to ensure smooth releases
- Created and tracked tasks using **Jira** and supported team collaboration through Slack
- Assisted in monitoring deployments and resolving basic production issues

## **Education**

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### **Bachelor of Science (B.Sc.) in Mathematics, Physics, and Computer Science (MPCS)**

Sri Vaishnavi Degree College, Rajampet | 2017 Affiliated with Yogi Vemana University, Kadapa

### **Master of Computer Applications (MCA) 2020**

Annamacharya University

Annamacharya Institute of Technology & Sciences (AITS), New Boyanapalli, Rajampet, 516115