Sai Sriram Ampapurapu

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PROFESSIONAL EXPERIENCE

DevOps Engineer   Jul 2019 - Jun 2022
Wipro Technologies Ltd. Nokia, Chennai, India

Streamlined deployment and monitoring processes with efficient infrastructure and automation solutions.
- Created and **maintained AWS EKS clusters**, improving resource management efficiency by reducing manual intervention by 200 hours annually.
- Automated 95% of provisioning and configuration tasks using **Infrastructure as Code** with **Terraform and Ansible**, reducing setup time from days to hours.
- Implemented comprehensive monitoring solutions for AWS environments using **Prometheus, Grafana, and Splunk,** enhancing system reliability and reducing downtime incidents by 12 in one year.
- Upgraded pre-existing **Jenkins jobs** for end-to-end CI/CD coverage, cutting deployment time by 75%.
- Designed automated test suites in **Python and Selenium**, increasing test coverage by 150 additional tests and improving overall code quality.
- Innovated a machine learning based test failure classification system which cut the rework times by 75%.

Software Developer   May 2018 - Jun 2019
Broadridge Financial Solutions, Remote

Enhanced and Engineered backend solutions using Kuberenetes focusing on efficiency and scalability.
- Collaborated with senior developers to create a production-grade **Kubernetes cluster**, standardizing deployment methodologies and cutting deployment times from 45 to 15 minutes.
- Optimized **PostgreSQL** queries, reducing data retrieval times by 25% and enhancing system responsiveness.
- Developed JSON parsers utilizing **REST APIs,** saving business analysts 10 hours of work per week.
- Implemented **caching strategies using Redis**, improving load times and reducing server load by 20%.

Web Developer Intern   Sep 2017 - Dec 2017
Tekie.in, Remote

Built an e-learning website backend with Django, ensuring high performance and functionality.
- Simplified **Django ORM queries** and database indexing, boosting application performance by 30%.
- Designed and authored over 10 RESTful API's contributing to a 25% increase in system functionality.

SKILLS & CERTIFICATIONS

Programming - Python, GoLang, Java, C++, Bash Scripting, Git, REST, Django, Flask
Technologies - Linux, CentOS, Jenkins, Gitlab CI, Docker, Kubernetes, Helm, Terraform, Ansible, GitOps, Jira
AWS - EKS, S3, Lambda, ECS, VPC, SNS, SQS, Elasticsearch, Cloudwatch, RDS, DynamoDB
DataBases & Monitoring - PostgreSQL, MongoDB, Prometheus, Grafana, Splunk
Certifications-AWS Sysops Administrator Associate, AWS Solutions Architect Associate, Terraform Associate

EDUCATION

University Of Central Florida   Aug 2022 - May 2024
Master of Science in Computer Science

PROJECTS

- **Netflix Application using DevSecOps Practices**
  Deployed a Netflix clone on a Kubernetes cluster using a secure CI/CD pipeline managed by Jenkins. This project utilized React.js for frontend and DevOps tools including **Docker, SonarQube, Trivy** for security, Prometheus and Grafana for monitoring, and **ArgoCD with Helm** for streamlined Kubernetes deployments.
- **Wordpress Application using Terraform**
  Deployed a highly available and scalable **wordpress application on AWS using Terraform**. This project uses ALB, ASG, RDS and VPC for scalability and security.