ABINAYA PREM

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CAREER OBJECTIVES:

To work on challenging assignments in a progressive organization that would leverage my technical experience to the fullest potential and align my growth with the growth of the Organization.

CAREER SUMMARY:

Overall, **5** years of IT Experience and **4** years **as AWS and DevOps Engineer** in Automating, and Optimizing mission critical deployments in AWS, leveraging configuration management, CI/CD, and DevOps processes. Implementing cloud strategy in various environments.

TECHNICAL SKILLS:

AWS Services	: EC2, S3, EFS, IAM, Load balancer, Autoscaling, VPC, Route53, Cloud front, Cloud watch, RDS, SNS, SQS, EKS.
DevOps Tools	: Jenkins, Ansible, Docker, GIT, Terraform,
Scripting languages	: Python, Shell, Yaml Kubernetes
Protocols	: TCP/IP, SSH, HTTP, HTTPS, RDP.
OS Platform	: Linux, windows

PROFESSIONAL EXPERIENCES:

Organization: TECHRIFF INFO SYSTEM

Role: DevOps Engineer

Period: Oct 2019 - Present

Roles & Responsibilities:

- Provisioning the **EKS** Kubernetes clusters and worked with **K8S Manifest Files**.
- Proficient in writing Kubernetes manifest files for various resources, including Managing Kubernetes Cluster by using **Helm Chart.**
- Setup **Nginx ingress** controller to manage ingress/egress routing rules for **Kubernetes.**
- Deployed and scaled applications using container orchestration with Amazon **EKS (Elastic Kubernetes Service).**
- Experience in Creating reproducible environments in AWS using **Terraform** modules ensuring scalability and reliability.
- Implemented version-controlled **"IaC"** practices with **Git and GitHub,** enabling collaborative and auditable
- infrastructure changes.

- Containerize applications using Docker for consistency and portability. Manage container images and ensure efficient resource utilization.
- Written Docker File to **build Docker Images** to run them as Docker Containers. Built and deployed Docker containers for implementing micro services architecture from **monolithic architecture.**
- Created and maintained Jenkins pipelines for automated build, test, and deployment.
- Integrate code changes seamlessly and detect integration issues early.
- Monitor and improve overall **CI/CD pipeline** performance.
- Integrated automated quality checks using SonarQube into pipelines to ensure reliable and error-free deployments.
- Managed version control repositories using **Git** and **GitHub**.
- Collaborate with development teams to ensure smooth code integration. Implemented branching strategies and resolve merge conflicts.
- Automated configuration management using **Ansible playbooks.** Ensure consistent server configurations across environments. Handled application deployments and updates reliably.
- Implemented monitoring solutions to track system health, application performance, and resource utilization. Set up centralized logging using tools like **Prometheus/Grafana** for improved troubleshooting and analysis.
- Experience in the provisioning **Cloud Infrastructure using Amazon Web Services**.
- Utilized **Terraform for Infrastructure as Code (IAC) and** automated build workflows.
- Created Three-tier architecture in AWS using services **like EC2, S3, EFS, IAM, Load Balancer, Auto Scaling, VPC, Route 53, Cloud Front, CloudWatch, RDS.**
- Having basic knowledge of **Python, Shell and Yaml** scripting technologies. Good Experience in Operating systems like **Windows & Linux commands.**
- Collaborated with cross-functional teams to define and implement DevOps processes and best practices, fostering a culture of continuous improvement.
- Implemented security measures, ensuring compliance with industry standards and regulations. Provided technical support and troubleshooting for production systems and minimizing downtime.
- Mentored junior team members and facilitated knowledge sharing within the team.
- Good Experience with **Version Control System** such as Git, Administrating source code management by **GitHub repository.**
- Created branches, tags and handled merge conflict using Git merge tool.
- Created quality gates in SonarQube dashboard and enforced in the pipelines to fail the builds when the condition is not met.
- Good knowledge in **Sonartype Nexus** repositories for the managing artifacts and dependencies.
- Containerize applications using **Docker** for consistency and portability. Manage container images and ensure efficient resource utilization.
- Built and deployed Docker containers to break up **monolithic app** into **microservices** improving developer workflow, increasing scalability and optimizing speed.
- Managed scalable and reliable infrastructure using AWS services like EC2 for virtual servers and **VPC** for network setup. Set up and configure EC2 instances for various applications, ensuring proper security measures and resource optimization.
- Implemented and managed data storage solutions using **Amazon S3** for scalable object storage. Configure and maintain **Amazon RDS** for relational database management, ensuring data integrity and performance.
- Utilized Amazon CloudWatch to monitor resource utilization, application performance, and set up alarms for critical metrics. Created custom monitoring dashboards to provide real-time insights into system health.

Organization: TECHRIFF INFO SYSTEM

Role : System Engineer

Period: Aug 2018 – Sep 2019

Roles & Responsibilities:

- Provided technical support for business-critical applications, investigating, and resolving incidents within agreed service level agreements.
- Collaborated with development teams to troubleshoot and resolve application-related issues, ensuring minimal downtime and maximum availability.
- Conducted root cause analysis for major incidents and implemented preventive measures to mitigate future occurrences.
- Developed and maintained documentation for support processes, known issues, and resolution steps, improving efficiency and knowledge sharing within the team.
- Participated in application release management, coordinating with various teams to ensure smooth deployments and post-release validation.

EDUCATION

MAM COLLEGE OF ENGINEERING, TIRUCHIRAPPALLI   **2008-2012**

B. TECH (IT) INFORMATION TECHNOLOGY

DECLARATION

I hereby declare that all the details provided above are true to the best of my knowledge.

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