KRUSHNA PANCHVISHE

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EXPERIENCE

Codeblaze Solutions Pvt Ltd   Pune
DevOps Engineer/AWS Cloud Architect   Set 2024 - Present

- Designed, implemented, and maintained scalable cloud infrastructure on AWS, automating deployments and operationalizing AI/ML models to ensure high availability and performance across production-grade environments.
- Implemented Infrastructure as Code (IaC) using Terraform and CloudFormation to standardize and automate the provisioning and management of cloud resources.
- Built and optimized Kubernetes clusters for container orchestration, ensuring efficient resource utilization and seamless application scaling.
- Collaborated with cross-functional teams to streamline cloud architecture, improve scalability, and maintain security best practices, including **IAM policy enforcement** and **least privilege principles** for AWS resources.
- Implemented monitoring and logging solutions using AWS CloudWatch, Prometheus, and Grafana, allowing proactive issue detection and resolution in production environments.
- Managed cloud security practices by configuring firewalls, VPCs, subnets, and conducting vulnerability assessments to mitigate security risks across cloud infrastructure.
- Operationalized machine learning models by integrating CI/CD pipelines for model deployment, and automating the continuous training and retraining of models in production.
- Designed, trained, and deployed a Text-to-SQL model on AWS SageMaker, enabling automated database query generation from natural language inputs, improving data accessibility for non-technical users.
- Implemented centralized repository management systems such as Nexus, JFrog, and GitLab Container Registries to enhance the development and deployment pipeline.
- Automated operational tasks using Python and Bash scripts, improving efficiency and reducing manual intervention in cloud and machine learning environments.

Centre for Development of Advanced Computing (C-DAC)   Pune
Project Engineer (DevOps/MLOps) - Applied AI Group   Oct 2021 - Sep 2024

- Design, implement, and maintain the CI/CD pipeline to enable automated build, test, and deployment of software applications resulted in improving application delivery speed as well as reduction in deployement cost by **60%**
- Established CI/CD pipelines with Jenkins, GitLab CI/CD, and AWS CodePipeline for efficient and automated software delivery.Implement and enforce best practices for version control, code merging, and branching strategies.
- Implemented IAM policies to enforce the principle of least privilege and enhance security across AWS projects.
- Collaborated with development teams to optimize build processes and improve code quality using code analysis and testing tools.
- Worked on automated VAPT(SAST) report generation and guided teams to resolve them.
- Managed Gitlab(EE) Administration for whole project. i.e. finalizing folder structure, account management, branching strategies, etc.
- Setup and Implementation of centralised repository management tools from scratch like Nexus, JFrog, Container and package registries in Gitlab EE.
- Configured and managed VPCs, subnets, and firewalls to ensure secure and efficient communication between AWS resources.
- Implemented monitoring and alerting solutions using differnet tools for proactive issue identification and resolution.

- Collaborated with development teams to optimize applications for AWS cloud environments, ensuring scalability and high availability.

- Designed and implemented Ansible playbooks for automated configuration management, resulting in a **40%** reduction in deployment time and ensuring consistent infrastructure across a heterogeneous environment.

- Automated routine tasks using scripting languages (Python, Bash) to improve operational efficiency.

- Configured and managed Docker containers for application deployment, orchestrating them using Swarm/Kubernetes.

EDUCATION

Centre for Development of Advanced Computing (C-DAC)   Pune
PG Diploma Artificial Intelligence - *Grade: A*   Mar 2021 - Sep 2021

Bhivarabai Sawant Institute of Technology and Research   Pune
B.E. Computer Engineering - *72%*   Aug 2014 - Jul 2018

PROJECTS

Human- Robot Interaction using point bug algorithm and android.

- The entire assignment/project is advanced in such a manner that it's far capable of **traversing to the target area through avoiding all kinds of boundaries and shifting on an optimized route** and main to large results both concerning time and electricity.

- [Spellchecker] The idea is to build a spellchecker which works on proper noun. We build it sucessfully but this is failure because we don't have control over phonetic(proper nouns are not universal like english words)

- Docker Hub: [Spellchecker Image] Dockerized the application and deployed it on an AWS amplify.

TOOLS AND TECHNOLOGIES

- **VCS and SCM** : Git, SVN, Gitlab, Github

- **CI/CD** : Gitlab CI, Jenkins

- **Repository Manager** : Nexus, JFrog, Package and Container Registries In Gitlab(EE)

- **Containerization and orchestration** : Docker, Docker Swarm, Kubernetes, Terraform

- **Build Tools** : Poetry, Pip, Maven, Npm

- **Cloud** : AWS/AZURE

- **Monitoring** : Promitheus, Grafana, Elastic Stack, Zabbix

- **MLOps** : DVC, MLflow, Wandb

- **Scripting Languages** : Python, Bash, Powershell

- **Configuration Management Tools** : Ansible, Puppet

- **Others** : Linux, Kafka, MinIo, Nginx