

Dipanwita Ghosh

DevOps Engineer

OBJECTIVE

DevOps Engineer with 3+ years of hands-on experience in designing, implementing, and maintaining robust infrastructure solutions. Proficient in leveraging automation tools to streamline development, testing, and deployment processes, resulting in increased efficiency and reduced time-to-market.

CONTACTS

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Address - Kolkata, West Bengal

EDUCATION

2018-2020

UNIVERSITY OF CALCUTTA

MSC. IN COMPUTER SCIENCE

2015-2018

WEST BENGAL STATE UNIVERSITY

BSC. IN COMPUTER SCIENCE

TECH STACK

AWS CLOUD , KUBERNETES,

Terraform, Docker, Jenkins,

EXPERIENCE

JAN 2022- AUG 2024

DevOps Engineer | PRM FINCON SERVICE PRIVATE LIMITED

- **DevOps:** Successfully executed deployments for 20+ clients on **Ubuntu, CentOS, and RedHat**. Proficient in AWS services including **EKS, WAF, S3, EC2, Fargate, Lambda, CloudFront, ECR, VPC, Route 53, ALB, Nginx, GuardDuty, PostgreSQL, MongoDB, and DynamoDB**.
- **MLOps:** Design a whole ML pipeline for internam model training with different Open source framework (**Tensorflow serving, Openvino Serving** etc.) and cloud component (**Sagemaker, Beanstalk**).
- Designed and implemented an **EKS** cluster with **ALB** for optimal performance and high availability. Integrated **KEDA** with Kubernetes and **EFS** to dynamically scale workloads and efficiently manage persistent volume data.
- Established a centralized log analysis and archival sandbox by integrating **Fluentd, Kibana Elastic Search and S3**.
- Established a whole centralized dashboard for model data drift and performance monitoring using **Prometheus, Grafana, Node Exporter, and Cadvisor**.
- AWS infrastructure deployment automation and security using **Terraform and Hashicorp Vault**.
- **CI/CD:** Designed and implemented a streamlined deployment pipeline for **Aws cloud** and on-premises servers, orchestrated via a dedicated Jenkins server for Model version testing and deployment and also setup a data pipeline for model data cleaning jobs.
- **Scripting:** Utilized Python and Bash scripting with Boto3 to streamline database setup and implement functionalities in client environments. Demonstrated skill in task automation, enhancing operational efficiency, and seamless AWS service integration.
- **Storage:** Implemented data dump and automatic data fetch pipeline with proper DLM policy for model data training and testing.

APR 2021-JAN 2022

Junior Software Engineer | SYNERG TECHNOLOGY INDIA PRIVATE LIMITED

- **Java:** designed and implemented microservices architecture, leveraging spring boot framework for developing apis that seamlessly

Istio, Hashicorp Vault, EFK,
Prometheus/Grafana, Nginx,
KEDA, ContainerIO, TF
Serving,
Python, Java, Bash
Scripting, MongoDB,
Postgresql, Tf-serving, Openvino
serving, Sagemaker, DVC,
Pandas, Chroma dB, Ollama,
YOLO, MLFlow

CERTIFICATION

AWS CERTIFIED SOLUTIONS ARCHITECT – ASSOCIATE

Certification id:

f576f3dcd76246deafd0bee4a127fcb6

Validate at:

<https://aws.amazon.com/verification>

Issue date: May 2024

Expiration date: May 2027



interacted with sql and mongodb databases cluster for efficient backend operations.

- **Python:** Developed etl scripting to efficiently process and prepare model data, ensuring data quality and consistency. Successfully integrated apis with multiple models, enabling seamless data flow and interoperability.
- Developed a java-based api that utilized the aws sdk to interact with amazon s3, enabling seamless file upload and download functionalities.
- **Devops:** utilized docker's containerization technology to simplify deployment processes, ensuring that the java application could be
- Seamlessly transferred across various environments with minimal configuration.
- **CI/CD:** engineered a maven build pipeline for a java application, ensuring a streamlined and automated deployment process. Integrated unit test cases into the pipeline through sonarqube, thereby elevating code quality and achieving higher test coverage.
- **SCM:** established and maintained version-controlled repositories using git and bitbucket, ensuring a systematic and organized approach to codebase management.