KASTURI MITRA

DevOps Engineer at Credera

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EXPERIENCE

DevOps Engineer
Credera
October 2021 - Present

Client: Major UK Bank
- Built a Data Route-to-Live for a self-serve MLOps platform, reducing platform deployment time for Data Scientists by $\sim$97%.
- Designed and implemented a complex GitOps solution using GitHub Actions that enable users across the bank to provision on-demand personalized ML platforms in GCP through a single-click deployment process.

Client: Wealth Management Firm
- Built a Data Platform hosted on Azure enabling Wealth Managers to access and manage consolidated customer portfolio data from various sources using Azure Data Factory, Container Apps and API Management.
- Introduced 6 new workflows to allow the Data Team to deploy and version control Data Factory pipelines without prior knowledge of Git.

Client: Specialty Insurer
- Deployed foundational infrastructure on Azure for a greenfield Underwriting Service Model, and stepped in as Platform lead to enable centralized cross-subscription monitoring and alerting using App Insights.
- Designed and implemented CI/CD promotion strategy using Azure DevOps, enabling consistent infrastructure provisioning across Dev, Staging, and Production environments.

Internal Projects
- Oversee all internal Azure projects as Azure Lead, collaborate with project teams, and communicate status updates to leadership, including blockers, cost projections, risks and mitigation strategies.
- Led and shaped critical projects; reduced average deployment time by 80%, cut down cloud costs by 75% through use of ephemeral environments, and fixed security vulnerabilities surrounding shared access credentials.
- Productionized Kubernetes deployment using automated workflows, reducing deployment time by 30% while maximizing application uptime.
- Designed and delivered content for over 14 Graduate Programme sessions and led a company-wide initiative to deepen the organization's understanding of advanced AI concepts.

PROJECTS & ACTIVITIES

Splitends | 2024, ongoing
Developing an AI based interactive storytelling web-app in Flask, enabling users to create engaging personalized stories and customizable character arcs.

2nd Prize Winner, AWS Sustainability GameDay | 2024
AWS-hosted coding challenge to reduce carbon footprint.

Speaker, AWS Immersion Day | 2022
Presented the architecture and end-to-end deployment process for a Streaming Data Platform to visualize real-time TfL journeys.

Women in Tech Blog | 2022
Authored a blog for Credera on Medium, aimed at encouraging women to enter tech fields; most read blog for three consecutive months.

ABOUT ME

I am a highly driven DevOps Engineer with over three years of experience streamlining deployment process using automated CI/CD workflows across Azure, AWS, and GCP using Terraform. I am very passionate about building infrastructure that enable organizations to rapidly build, test, and deploy stable software.

EDUCATION

MSc in Data Science
The University of Edinburgh | 2021
Grade 73.56%

BSc in Computer Science (Honours)
University of Delhi | 2020
Grade 9.28 CGPA

SKILLS

Cloud:
Microsoft Azure   AWS   Google Cloud Platform (GCP)

CI/CD:
Terraform   GitHub Actions   Azure DevOps   Terraform Cloud

Other tools:
Python   Bash   Docker   Azure CLI   Kubernetes

CERTIFICATIONS

Azure Developer Associate (AZ-204)
Microsoft | 2024

Terraform Associate
Hashicorp | 2023

Associate Cloud Engineer
Google Cloud Platform | 2021