

KASTURI MITRA

DevOps Engineer at Credera

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EXPERIENCE

DevOps Engineer

Credera

October 2021 - Present

Azure GCP Terraform CI/CD MLOps

Client: Major UK Bank

- Worked as part of the Data, Analytics and AI team to build and integrate Data Route-to-Live into a self-serve platform which provides MLOps capabilities to process, analyse, and build models on production data
- Designed and implemented GitOps solutions to automate instantiation of template repos
- Deployed secure networking architectures in GCP, built workflows for artefact promotion across environments, introduced knowledge sharing sessions to improve collaboration

Client: Specialty Insurer

- Deployed foundational infrastructure as part of the Core Infrastructure team on a complex, greenfield project to build a platform for an Underwriting Service Model on Azure
- Maintained the platform as Platform Lead after initial deployment phase while liaising with Application and Data teams; enabled centralized cross-subscription monitoring

Internal Projects and Contributions:

- Azure Lead Engineer for the Internal Azure Platform – setup budget monitoring; assigned appropriate RBAC for engineers on the platform
- Worked on Bid AI, a web app hosted on Azure using Kubernetes (AKS), which leverages AI to facilitate bidding for clients – deployed infrastructure to production; automated end-to-end deployment via CICD pipelines, eliminating manual steps
- Led project to automate periodic rotation of Azure credentials in GitHub Organization to improve security of the Azure Platform
- Led and shaped the Azure Playground, a sandbox environment with curated Terraform modules and Github Actions pipelines to streamline IaC deployments which enables rapid development of PoCs
- Presented and developed technical content for over 14 Graduate Programme sessions, ranging from DevOps to Data & ML
- Deployed a React app to visualize tubes in the London Underground network in real-time to AWS; refactored Terraform to separate persistent and ephemeral resources to reduce costs

Data Science Intern

BioXcel Corporation

June 2019 - July 2019

Python KNIME PowerBI

- Scraped and cleaned large volumes of research publications
- Predicted drug-disease correlation using machine learning models
- Integrated Python within KNIME to automate processes

ABOUT ME

I am a DevOps Engineer at Credera with over two years of experience across DevOps, Data, Machine Learning, and programming. I have worked on various client facing and internal projects through which I have been exposed to a wide a range of tools and technologies. My passion lies in building robust architectures on the cloud while streamlining the deployment using automated workflows. I am excited to develop my current skillset and actively contribute to new projects.

I am also an avid reader, writer, photographer and occasionally hike during weekends.

SKILLS

Cloud:

Microsoft Azure AWS
Google Cloud Platform (GCP)

CI/CD:

Terraform YAML GitHub Actions
Azure DevOps Terraform Cloud

Languages:

Python Java TypeScript SQL

Other tools:

git Bash Docker
Jupyter Notebooks ReactJS

CERTIFICATIONS

Azure Developer Associate | 2024

Microsoft

Terraform Associate | 2023

Hashicorp

Associate Cloud Engineer | 2021

Google Cloud Platform

ML Practitioner | 2022

Dataiku

EDUCATION

MSc in Data Science

The University of Edinburgh (2021)

Grade 73.56%

- Modules: Machine Learning, Reinforcement Learning, NLP, Data Mining and Exploration, and Game Theory
- Dissertation: Automating the Identification of Startups for Venture Capital Firms

BSc in Computer Science (Honours)

University of Delhi (2020)

Grade 9.28 CGPA

- Minor in Mathematics

PROJECTS

Automating the Identification of Startups for Venture Capital Firms

Masters Dissertation

June 2021 - August 2021

Python Machine Learning Web scraping NLP

- Developed a web-scraping algorithm that crawls the web to identify and classify potential investment opportunities for Venture Capitals (VCs) using NLP
- The algorithm identified startups with an accuracy of 85.54%

Visualizing World Data

Github Page

December 2018 - January 2019

Tableau Data Analysis

- Used publicly available socio-economic data
- Created relevant visualizations to find patterns in the various factors
- Interpreted the results by correlating with real world knowledge of countries

Text Analysis of a Novel

Github Repository

June 2018 - July 2018

R NLP Sentiment Analysis

- Used text from my novel (White Hole)
- Created visualizations for frequencies, correlations, and sentiments
- Used sentiment-per-section to infer and understand personal growth as a writer

ACTIVITIES

Participant, AWS Sustainability GameDay | 2022

Represented Credera at the AWS Sustainability GameDay, an AWS hosted coding challenge to reduce carbon footprint

Speaker, AWS Immersion Day | 2022

Presented the architecture for Streaming Data Platform (a web-app to visualize real-time TfL journeys) to key clients at the AWS Immersion Day

Credera Representative, Grad Fair | 2022

Represented Credera in the Northumbria University graduate fair

Writer, Women in Tech Blog | 2022

Published a blog as part of the Women in Tech series for Credera's Medium publication and won most read blog of the month.

Organizer, Automata Symposium | 2019

Inter-college computer science symposium

Founding Member, Pixelated Coders | 2019

College tech club; organized advanced Computer Science workshops

Writer, White Hole | 2017

A self-published science fiction novel on Amazon

President, Redshift | 2016-17

School physics club; member since 2015

HOBBIES

Photography

Reading

Writing

Travelling

Hiking