

Aditya Kumar Singh

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Professional Summary

DevOps Engineer with 4+ years of experience in automating deployments, building CI/CD pipelines, and migrating applications to Azure Cloud. Skilled in **Python, GitHub Actions, Jenkins, Kubernetes**, and **Azure Cloud** with a strong focus on **cost optimization** and modernization.

Certified Microsoft Azure Fundamentals (AZ-900), Github Actions Certified Professional (GH-200)

Skills

Languages: Python, Java, C++, Groovy, Bash

Frameworks: FastAPI, Spring Boot

DevOps Tools: Jenkins, GitHub Actions, Docker, Kubernetes, Terraform, Ansible, Prometheus

Cloud: Azure Cloud, Azure Devops

Artifactory: Azure Container Registry, JFrog

Experience

Software Engineer

Optum, Gurugram

2021 – Present

- Replaced decommissioned **CA Release Automation** with custom **Python**-based deployment scripts.
- Added 100+ **jenkins** jobs for 10+ teams to **Github Action**, saving **Jenkins** Infrastructure cost and reducing maintenance overhead.
- Designed and implemented **CI/CD** pipelines using **GitHub Actions, Jenkins and Azure Devops** for multiple teams, streamlining deployments across diverse environments.
- Developed a **Python** utility that uses the OpenAI API to convert **Jenkinsfiles** into **GitHub Actions** workflows.
- Automated deployments to **Linux servers, AS/400 systems, and Azure Kubernetes Service (AKS)**.
- Collaborated with cross-functional teams to customize workflows for project-specific needs, reducing deployment time.
- Created a custom CLI tool using **Python** to help developers generate CI/CD pipelines for AS/400 systems.
- Migrated **on-prem** applications to **Azure Cloud**.
- Developed a **Python**-based utility to fetch daily reports automatically and store it in **Azure Blob Storage**.
- Acted as a primary point of contact for client escalations during release/sprint cycles.
- Migrated various jobs from on-prem **JFrog Artifactory** to **cloud Artifactory and Azure Container Registry (ACR)**.
- Conducted a proof of concept for deployment to **Azure Cloud**.
- Developed an **on-prem API** to connect to legacy applications which can be consumed in the cloud.

Certifications

Microsoft Certified: Azure Fundamentals (AZ-900)

[View Credential](#)

Github Actions Cerifications (GH-200)

[View Credential](#)

Projects

Perosnal Portfolio

Devops themed resume made in React ,containzerized and Deployed to Amazon EC2.

[URL](#)

Automatic Number Plate Recognition System

Tech: Python, OpenCV, TensorFlow, YOLOv4

Built a model with **93% accuracy** for detecting number plates using **OCR**.

Demo: [YouTube Link](#)

Education

B.Tech, KIET Group of Institutions

2017 – 2021

Gurugram, India