

# Aditya Kumar Singh

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## Professional Summary

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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)**

## Skills

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

**Frameworks:** FastAPI, Spring Boot

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

**Cloud:** Azure Cloud

**Artifactory:** Azure Container Registry, JFrog

## Experience

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### Software Engineer

*Optum, Gurugram*

*2021 – Present*

- Replaced decommissioned **CA Release Automation (CARA)** with custom **Python**-based deployment scripts, improving efficiency and flexibility.
- Migrated **100+ Jenkins jobs** for **10+ teams** to **GitHub Actions**, saving infrastructure cost and reducing maintenance overhead.
- Designed and implemented **CI/CD pipelines** using **GitHub Actions** and **Jenkins**, streamlining deployments across diverse environments.
- Developed a **Python utility** leveraging **OpenAPI specifications** 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 CI/CD workflows for project-specific needs, reducing deployment time by **30%**.
- Created a **custom CLI tool** in **Python** to help developers generate standardized pipelines for **AS/400** systems.
- Migrated multiple on-premise applications to **Azure Cloud**, integrating with **Azure Container Registry (ACR)** and **JFrog Artifactory**.
- Developed a **Python-based automation tool** for fetching and distributing daily operational reports.
- Acted as a primary point of contact for **client escalations** during release and sprint cycles, ensuring rapid resolution.
- Led the migration of several build artifacts from on-prem **JFrog Artifactory** to **cloud Artifactory** and **Azure Container Registry (ACR)**.
- Conducted a **Proof of Concept (POC)** for end-to-end deployment on **Azure Cloud**, improving scalability and observability.
- Built an on-prem **API service** to connect legacy applications with cloud-based systems for modernization initiatives.

## Certifications

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**Microsoft Certified: Azure Fundamentals (AZ-900)**

[View Credential](#)

**GitHub Actions Certification (GH-200)**

## Projects

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### Personal Portfolio

*DevOps-themed resume made in React, containerized and deployed to Amazon EC2 with Docker and Nginx reverse proxy.*

[stalord.in](http://stalord.in)

### 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

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**B.Tech, KIET Group of Institutions**

Gurugram, India

*2017 – 2021*