

# AKASH CHANDRA MOHANTY

Python Developer | Azure DevOps Engineer | Cloud Solutions  
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## PROFESSIONAL SUMMARY

Results-driven Python Developer and Azure DevOps Engineer with comprehensive expertise in cloud infrastructure, CI/CD automation, and containerization. Proven track record of designing scalable solutions using Microsoft Azure, Docker, Kubernetes, and Infrastructure as Code (IaC). Skilled in building data-driven applications with Python, implementing DevOps best practices, and optimizing deployment workflows. Passionate about leveraging cloud-native technologies to drive operational excellence and continuous improvement.

## CORE COMPETENCIES

- **Cloud Platforms:** Microsoft Azure, Azure DevOps, Azure Kubernetes Service (AKS), Azure Functions, Azure DataFactory.
- **DevOps & CI/CD:** Azure Pipelines, YAML, Git, GitHub, ARM Templates, Infrastructure as Code (Terraform).
- **Containerization:** Docker, Kubernetes, AKS.
- **Programming:** Python (OOP, Data Structures, Algorithms), Pandas, NumPy, Matplotlib, Flask (Basics).
- **Monitoring & Quality:** Azure Monitor, SonarQube, Prometheus, & Grafana (basics), Application Performance Monitoring.
- **Web Technologies:** HTML5, CSS3, Bootstrap, JavaScript (basics).

## TECHNICAL PROJECTS & EXPERIENCE

### Azure DevOps CI/CD Pipeline Implementation

- Architected and deployed end-to-end CI/CD pipelines using Azure DevOps and YAML, automating build, test, and deployment processes across multiple environments
- Integrated automated testing and code quality gates using SonarQube, reducing deployment errors by ensuring code standards

### Cloud Infrastructure Automation with Terraform

- Designed and provisioned Azure infrastructure using Terraform, implementing Infrastructure as Code best practices
- Configured automated resource provisioning for virtual machines, networks, storage accounts, and security groups.

### Python Data Analysis & Visualization

- Conducted exploratory data analysis (EDA) using Pandas and NumPy to extract actionable insights from complex datasets
- Created interactive visualizations with Matplotlib for data storytelling and business intelligence reporting.

### Object-Oriented Student Management System

- Built a comprehensive Student Record Management System utilizing Python OOP principles and design patterns
- Implemented full CRUD operations with robust file handling and exception management for data integrity
- Designed modular, maintainable code architecture following SOLID principles and best practices

## INTERNSHIP EXPERIENCE

### Cloud and DevOps Internship — Naresh IT

3 Months | 2025

- Gained comprehensive hands-on experience with cloud computing fundamentals and Microsoft Azure platform services, including Azure Virtual Machines, Azure App Services, Azure Storage, and Azure Networking components
- Designed and implemented CI/CD pipelines using Azure DevOps, integrating automated build processes, deployment strategies, and Git-based version control for streamlined application delivery
- Collaborated in deploying sample applications to Azure cloud environments, performed resource monitoring using Azure Monitor, and implemented performance optimization techniques to ensure application reliability and scalability

## EDUCATION

### Bachelor of Technology in Computer Science Engineering

Biju Patnaik University of Technology (BPUT) | 2021 – 2025 | CGPA: 7.99/10.0

### Higher Secondary Education (Science)

Council of Higher Secondary Education (CHSE) | 2021 | 63% | HSC: 70% (2019)

## TECHNICAL PROFICIENCIES

- **Operating Systems:** Linux (Ubuntu, CentOS), Windows Server, Shell Scripting
- **Development Tools:** VS Code, PyCharm, Jupyter Notebook, Git, GitHub Actions
- **Databases:** SQL, Azure SQL Database
- **Methodologies:** DevOps, Continuous Integration/Continuous Deployment

## KEY STRENGTHS & ATTRIBUTES

Analytical problem-solver with strong Python and Azure DevOps expertise, automation-first mindset, excellent communication skills, and passion for emerging cloud-native technologies and continuous learning.