

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.