

# Shravani Puppala

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## SUMMARY

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Results-driven Associate Cloud & DevOps Engineer with hands-on experience in AWS infrastructure management, CI/CD pipeline automation using Jenkins and GitHub Actions, containerization with Docker and Kubernetes, and infrastructure provisioning with Terraform. Skilled in scripting (Bash, Python), monitoring, and cloud security best practices. Certified AWS Solutions Architect and Microsoft Azure Security Engineer, eager to drive efficient and reliable software delivery in dynamic environments.

## EXPERIENCE

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### Associate Cloud & DevOps Engineer

**PDSL** **September 2022 - Present**

- Supported and maintained AWS infrastructure (EC2, S3, IAM, VPC) on Linux-based environments (Ubuntu/RHEL), resolving 100+ support issues with a 95% first-touch success rate.
- Designed and automated CI/CD pipelines using Jenkins and GitHub Actions, reducing deployment time by 70% and eliminating manual intervention across 3 active projects.
- Built and deployed 20+ Docker containers to unify dev and prod environments, reducing environment mismatch issues by ~60%.
- Provisioned infrastructure using Terraform for 10+ services, cutting environment setup time from 2 hours to under 10 minutes.
- Developed and deployed containerized applications on Kubernetes clusters, improving scalability and availability of services.
- Wrote 15+ automation scripts in Bash (Shell Scripting) and Python on Linux (RHEL/CentOS) servers to automate log rotation, backups, and EC2 health checks, reducing manual tasks by 40%.
- Implemented monitoring and alerting via CloudWatch and Grafana on Linux-based systems (RHEL/Ubuntu), decreasing meantime to detect (MTTD) for incidents by ~50%.
- Collaborated with cross-functional teams to implement DevOps workflows, leading to 30% faster release cycles and fewer rollbacks.
- Enforced cloud security standards by managing IAM policies, encrypting sensitive data with Secrets Manager, and ensuring compliance for 3 internal audits.
- Optimized AWS resource usage by identifying and terminating underutilized EC2 instances and unused EBS volumes, resulting in a monthly cost reduction of 20%.
- Implemented automated rollback strategies in the CI/CD pipeline, minimizing downtime and reducing deployment-related incidents by over 60% during release cycles.

## PROJECT

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### AWS Infrastructure Automation with Terraform

- Architected and automated a multi-tier AWS infrastructure (EC2, VPC, IAM, S3, security groups) using Terraform, reducing manual setup time by 90% through Infrastructure as Code (IaC) best practices.
- Configured and optimized Linux (Ubuntu/RHEL) servers, leveraging Shell scripting to automate environment initialization tasks, cutting deployment errors by 40%.
- Enhanced deployment reliability and scalability by modularizing Terraform configurations, enabling 100% repeatable builds and reducing infrastructure provisioning costs by 20%.

### CI/CD Pipeline for Containerized Web App

- Developed and implemented an end-to-end CI/CD pipeline for a containerized Python Flask application using GitHub Actions, Docker, and AWS EC2 (Linux/RHEL), reducing deployment time by 70% and improving release frequency.
- Automated code integration, testing, and image building with Docker and Shell scripting, achieving 95% reduction in manual intervention during staging deployments and increasing build reliability.

## EDUCATION

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### Master of Science in Computer Science

Purdue University Fort Wayne • Fort Wayne, IN • 08/2023 – 05/2025

## CERTIFICATIONS

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### AWS Solution Architect (SAA-C03)

### Microsoft Certified: Identity and Access Administrator Associate (SC-300)

### Microsoft Certified: Azure Security Engineer Associate (AZ-500)

## SKILLS

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AWS (EC2, S3, IAM, VPC, CloudWatch, Lambda), Azure Security & Identity Management, Terraform, Kubernetes, Docker, GitHub Actions, Jenkins, CI/CD Pipeline Automation, Bash & Shell Scripting (Linux/Ubuntu/RHEL), Python Scripting, Infrastructure as Code (IaC), Monitoring & Alerting (CloudWatch, Grafana, ELK), Linux Administration (Ubuntu, CentOS, RHEL), Networking (Load Balancers, DNS, VPN), Security & Compliance (IAM Policies, Secrets Manager, Vulnerability Scanning), Configuration Management (Ansible), Cloud Cost Optimization, Agile & DevOps Practices.