

SAI SWARUP PUVVADA



AI-Enabled DevOps Engineer
SRE and Platform Specialist

Contact

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Location: Hyderabad, India



EDUCATION

Bachelor of Science (B.Sc)

B.V.R.I.C.E, Bhimavaram

CERTIFICATIONS

AI-102 : Azure AI Engineer Associate

AI-900 : Azure AI Fundamentals

GH-300 : GitHub Advanced Security

GH-200 : GitHub Copilot

GH-900 : GitHub Foundations

LANGUAGES

English Hindi Telugu

HOBBIES

Building apps

Blogging

Numismatics

Travelling

Film Making

Youtube

Numismatics

Cooking

VISA

US B1 Visa (Valid till 2030)

PROFILE

AI-Enabled DevOps & Site Reliability Engineer with 15+ years of experience in building and operating scalable, secure, and highly available cloud platforms on Microsoft Azure. Strong expertise in Kubernetes (AKS), Infrastructure as Code (Terraform, Bicep), and CI/CD automation using Azure DevOps and GitHub Actions. Experienced in implementing SRE practices, observability solutions, and platform engineering initiatives for enterprise-scale systems. Skilled in designing Azure Landing Zones, multi-region architectures, and cost-optimized solutions. Familiar with leveraging AI capabilities to enhance monitoring, automation, and operational efficiency in modern cloud environments.

15 Years Experience

IN DEVOPS, SITE RELIABILITY, AND PLATFORM ENGINEERING

PROFESSIONAL EXPERIENCE

DevOps Lead

JAN 2017 - PRESENT

Applied Information Sciences, Hyderabad | Clients: GEICO, Windcreek & FM

- Led DevOps and SRE initiatives for large-scale Azure-based SaaS applications.
- Designed and implemented Azure Landing Zones for standardized and governed environments.
- Built and managed Kubernetes (AKS) clusters for microservices architecture using Helm.
- Implemented Infrastructure as Code using Terraform and Bicep.
- Designed multi-region highly available cloud architectures.
- Developed CI/CD pipelines using Azure DevOps and GitHub Actions.
- Led migration of applications from on-premises environments to Azure cloud.
- Conducted proof-of-concept for migrating CI/CD pipelines to GitHub Actions.
- Improved observability with Prometheus, Grafana, Splunk, and Dynatrace.
- Led incident management and improved reliability and MTTR.

Senior Server Administrator

DEC 2015 - JAN 2017

NTT Data Global Delivery Services | Client: Morgan Stanley

- Supported cloud and hybrid environments with focus on Azure adoption.
- Applied monitoring, alerting, and incident response practices.
- Improved system reliability through proactive monitoring and tuning.
- Managed IIS applications hosted on virtualized and cloud environments.
- Handled production incidents ensuring SLA compliance.

System Administrator

MAY 2011 - DEC 2015

Pike Solutions, Hyderabad | Client: EDF Energy

- Managed on-premises Windows Server environments and IIS-hosted applications.
- Supported Linux servers and AWS-based workloads for operations and troubleshooting.
- Performed patching, upgrades, and infrastructure maintenance.
- Managed Active Directory and user access operations.
- Monitored systems and resolved infrastructure issues.
- Provided 24x7 production and infrastructure support.

CORE TECHNOLOGY SNAPSHOT

Cloud Architecture

AZURE • AKS • LANDING ZONES

CI/CD

ADO • GITHUB ACTIONS

IaC

TERRAFORM • BICEP

AI

AZURE OPENAI • GEN AI • AI-OPS • MLOPS

PORTFOLIO

CLOUD DELIVERY
RELIABILITY AND SCALE

AI AND AUTOMATION CONTRIBUTION

- AI-assisted monitoring insights and anomaly detection support
- AI-guided operational automation and runbook acceleration
- AI-assisted summaries for incident trends and response actions
- Exposure to Azure AI Services and Azure OpenAI capabilities

PLATFORMS

- Microsoft Azure (IaaS and PaaS)
- Kubernetes (AKS) and Docker workloads
- IaC with Terraform and Bicep
- CI/CD with Azure DevOps and GitHub Actions
- Observability with Prometheus, Grafana, Splunk, and Dynatrace

KEY ACHIEVEMENTS

- Designed Azure Landing Zones for scale and governance
- Built AKS platforms for resilient deployments
- Reduced MTTR through observability and automation
- Implemented IaC for consistent environments
- Led on-premises to Azure migration initiatives
- Delivered CI/CD migration POC from Azure DevOps to GitHub Actions
- Improved developer productivity via platform engineering

CORE SKILLS

CLOUD & ARCHITECTURE

- Microsoft Azure (IaaS, PaaS)
- AWS
- GCP
- Azure Landing Zones
- Multi-Region Architecture
- High Availability
- Cost Optimization

DEVOPS & CI/CD

- Azure DevOps
- GitHub Actions
- CI/CD Pipelines
- Release Automation

SITE RELIABILITY ENGINEERING

- SLA/SLO/SLI
- Incident Management
- Root Cause Analysis
- Chaos Engineering
- Disaster Recovery

MONITORING & OBSERVABILITY

- Prometheus
- Grafana
- Splunk
- Dynatrace
- Azure Application Insights

CONTAINERS & ORCHESTRATION

- Docker
- Kubernetes (AKS)
- Helm

INFRASTRUCTURE AS CODE

- Terraform
- Bicep

DEVSECOPS & SECURITY

- GitHub Advanced Security
- Secure CI/CD
- Secret Management

AI & MLOPS (EXPOSURE)

- Azure AI Services
- Azure OpenAI
- AI-assisted automation
- MLOps concepts

OPERATING SYSTEMS

- Windows
- Linux

AUTOMATION & SCRIPTING

- PowerShell
- Python

ARCHITECTURE HIGHLIGHTS

- Designed and implemented Azure Landing Zones enabling secure, scalable, and governed cloud environments.
- Architected multi-region Azure infrastructure ensuring high availability and fault tolerance.
- Built and standardized enterprise CI/CD architectures using Azure DevOps and GitHub Actions for automated workflows.
- Led migration strategies from on-premises infrastructure to Azure cloud platforms ensuring minimal downtime and improved scalability.
- Conducted CI/CD migration POCs from Azure DevOps to GitHub Actions to modernize pipeline ecosystems.
- Built AKS-based microservices platforms using Helm for scalable and resilient deployments.
- Implemented Infrastructure as Code using Terraform and Bicep for automated and repeatable provisioning.
- Utilized Prometheus, Grafana, Splunk, and Dynatrace for monitoring, alerting, and observability.
- Supported modern cloud architectures including AI-enabled workloads.

DAY-TO-DAY ACTIVITIES

- CI/CD Pipelines
- Terraform Provisioning
- Production Monitoring
- AKS Administration
- Scrum Calls
- Change & Incident Management
- Documentation
- Cost Optimization
- POCs & Evaluations
- Migration Activities
- Automation & Scripting