

PARAS BHANDERI

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SUMMARY

7+ years in SRE/DevOps and infrastructure software engineering, building Python automation, Git-driven CI/CD pipelines and container-based release tooling that engineering teams depend on. At Shell, own build, release and notification tooling for enterprise golden-image pipelines, turning recurring manual infrastructure work into automated, observable services.

SKILLS

Programming: Python, C++, GO, Rust, Bash, PowerShell

Cloud & IaC: Azure, AWS, GCP, Terraform, Pulumi, Ansible, Packer

CI/CD & GitOps: GitHub Actions, GitLab CI/CD, Azure DevOps, Argo CD

Containers & Orchestration: Kubernetes (AKS, EKS, GKE), Docker, Helm, Crossplane

Networking: AWS VPC, Azure VNet, Google Cloud VPC, DNS, routing, load balancing, network troubleshooting

AI & Agent Systems: Azure AI Foundry, AWS Bedrock, MCP, RAG, LangChain, LLMops

EXPERIENCE

Shell

April 2026 – Present

Senior Site Reliability Engineer

- Increased release frequency by 30% and cut deployment failures by 35% for golden container and machine image pipelines by owning CI/CD, release and deployment in GitHub Actions, Azure DevOps and Packer.
- Secured build alerting for 3 production image pipelines through Microsoft's O365 connector retirement as sole engineer, migrating event-driven webhook integrations to Power Automate and rewriting the shared Python notification action.
- Eliminated 60% of manual deployment effort through Terraform and Packer Infrastructure as Code for golden image builds and multi-region image replication across AWS and Azure.
- Halved manual intervention in infrastructure operations (50%) with Python, Bash and PowerShell tooling for recurring operational tasks.
- Lowered MTTR by 25% by instrumenting pipelines and platform services with Prometheus, Grafana and Dynatrace.
- Remediated 26 production VMs after tracing vulnerabilities to a misconfigured Windows Server 2022 golden image (disk controller, CIS hardening, accelerated networking), leading a snapshot, isolated validation, and batched rollout.
- Designed a weekly 2x2x2 reporting agent in Azure AI Foundry, using Azure Logic Apps to gather Azure DevOps work items, comments, and history and route AI-generated drafts through Microsoft Teams for employee review and approval.

Gore Mutual Insurance

November 2022 – March 2026

Site Reliability / DevOps Engineer

- Cut operational toil by 35% across multi-cloud production systems with event-driven Python self-healing automation triggered by monitoring alerts.
- Led a CI/CD transformation to GitHub Actions, Argo CD and GitOps with container-based packaging and Git-driven releases, cutting release cycle time by 50% and strengthening compliance and security posture.
- Shortened MTTR by 25% by leading Linux, networking and performance root cause analysis across cloud-native stacks.
- Built standardized dashboards and alerting across 50+ AWS and Azure microservices, saving 30% of troubleshooting time and speeding incident detection.
- Standardized multi-cloud provisioning with reusable Terraform modules and Ansible roles, lowering manual operational effort by 40%.

Kompusys Consultant Inc.

September 2020 – October 2022

Platform Engineer

- Decreased incidents and MTTR by 35% for cloud platforms serving thousands of users by resolving database, authentication and performance bottlenecks on Linux.
- Spearheaded disaster recovery strategies, ensuring 99.9% uptime for Kubernetes-hosted SQL and NoSQL workloads through robust backup and availability enhancements.
- Trimmed environment setup time by 50% with infrastructure-as-code frameworks that made AWS and Azure deployments reproducible.
- Automated container and platform operations with Python and Bash, improving deployment consistency while lowering operational overhead by 30%.

- Reduced downtime by 30% by resolving escalated networking and operating system issues across enterprise Linux and macOS environments.
- Engineered robust disaster recovery solutions for Kubernetes workloads, ensuring 99.9% uptime and minimizing potential data loss during critical system failures.
- Performed root cause analysis for high-severity incidents across systems, networks, and hardware, working with engineering and security teams on device policies and platform stability.

PROJECTS

MCP Platform – Cloud-Native AI Microservices on AWS EKS (GitOps + IRSA + LLM Integration)

[GitHub](#)

- Delivered zero-downtime deployments for a 10-service containerized platform on AWS EKS with an Argo CD GitOps pipeline using 7-wave ordered sync.
- Removed all static AWS credentials from the control-plane service by implementing IRSA (OIDC-federated STS token exchange).
- Configured API gateway autoscaling from 2 to 10 replicas at 70% CPU, with Kustomize overlays separating EKS production from MicroK8s development.
- Integrated an LLM tool-calling agent that answers operator questions by querying live platform services.

AI Inference on Kubernetes with vLLM – Gemma Model Serving

[GitHub](#)

- Established a Kubernetes-hosted inference service for Google Gemma 3 1B, providing an OpenAI-compatible REST API for applications to consume self-hosted text generation.
- Demonstrated AI-assisted incident triage by submitting simulated application failures and retrieving diagnostic suggestions, illustrating integration with internal SRE tools.
- Provisioned persistent model storage and application health checks to reuse downloaded weights across Pod replacements and support Kubernetes-managed recovery.
- Adapted the upstream GPU deployment for ARM64 CPU execution within a 6 GiB container memory budget, enabling reproducible development and API testing without cloud infrastructure.

EDUCATION

Associate Degree in Computer Science and Programming

Graduated: 2023

MIT (Massachusetts Institute of Technology), USA

Applied Science (AMM)

Graduated: 2019

(Conestoga College), Canada

Bachelor of Engineering

Graduated: 2015

(RK University), India

AWARDS & CERTIFICATIONS

- CKA: Certified Kubernetes Administrator
- HCTA0-003: HashiCorp Certified Terraform Associate
- AZ-400: Designing and Implementing Microsoft DevOps Solutions
- AZ-104: Microsoft Certified Azure Administrator
- AI-102: Microsoft Azure AI Engineer Associate
- Machine Learning Specialization and Deep Learning Specialization