

PARAS BHANDERI

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SKILLS

Programming: Python, C++, C#, Golang, Bash, PowerShell, Data Structures and Algorithms

Cloud & IaC: Azure, AWS, GCP, Networking (VPC, DNS, Load Balancing, TCP/IP), Terraform, Ansible, GitHub Actions, Argo CD, GitOps

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

Observability & SRE: Prometheus, Grafana, Dynatrace, Datadog, SLI/SLO/SLA

ML Infrastructure: CUDA, PyTorch, TensorFlow, MLOps, model serving, GPU orchestration

AI Platform & Agentic Systems: MCP, tool-calling agents, LLMOps, guardrails, evaluation, RAG, LangChain, Azure AI Foundry, AWS Bedrock

EXPERIENCE

Shell

April 2026 – Present

Site Reliability Engineer

- Managed containerized workloads on Kubernetes (EKS/AKS), implementing scaling strategies and improving deployment efficiency by 40%.
- Designed and implemented Infrastructure as Code (Terraform) for AWS/Azure environments, automating provisioning workflows and reducing manual deployment effort by 60%.
- Built and optimized CI/CD pipelines using GitHub Actions and Azure DevOps, improving release frequency by **30%** and reducing deployment failures by 35%.
- Enhanced platform reliability by implementing proactive monitoring and alerting (Prometheus, Grafana, Dynatrace), reducing incident response time (MTTR) by 25–40%.
- Developed automation scripts in Python, Bash, and PowerShell for infrastructure operations, reducing manual intervention by 50% and improving operational efficiency.

Gore Mutual Insurance

November 2022 – March 2026

Site Reliability Engineer

- Spearheaded CI/CD transformation using GitHub Actions, Argo CD, and GitOps, cutting release cycle time by 50%, improving compliance and security posture, and enabling deployments across multi-cloud environments.
- Led complex Linux/networking/performance troubleshooting across cloud-native stacks, performing RCAs and reducing MTTR by 25% through better observability and alerting.
- Established scalable infrastructure provisioning and configuration management frameworks using Terraform and Ansible, enabling standardized, reproducible multi-cloud environments and reducing manual operational effort by 40–60%.
- Engineered Python-based automation and self-healing workflows integrating Prometheus and Dynatrace signals, reducing operational toil by 35% and improving platform resilience across multi-cloud production systems.
- Executed FinOps programs including rightsizing, autoscaling, and cost observability across AWS and Azure, reducing cloud spend by 20% while improving resource efficiency.
- Drove cloud-native observability across 50+ microservices on AWS and Azure using Prometheus, Grafana, and Dynatrace, accelerating incident detection and reducing troubleshooting time by 30%.

Kompusys Consultant Inc.

September 2020 – October 2022

Platform Engineer / Technical Support Specialist

- Enhanced reliability of large-scale cloud platforms serving thousands of users by resolving database, authentication, and performance bottlenecks, reducing incidents and MTTR by 35%.
- Optimized Kubernetes for SQL/NoSQL workloads and fortified platform resiliency through backup and disaster recovery, achieving 99.9% uptime.
- Defined Terraform and Ansible infrastructure frameworks to standardize multi-cloud environments across AWS and Azure, enabling reproducible deployments and reducing environment setup time by 50%.
- Developed Python and Bash automation to streamline container and platform operations, improving deployment consistency and reducing operational overhead by 30%.

Apple Inc. (Kelly Services)

December 2019 – August 2020

Technical Support Engineer

- Achieved a 30% reduction in downtime by delivering advanced troubleshooting across enterprise-scale Linux and macOS environments, resolving complex networking and OS issues.
- Improved Kubernetes data platforms for containerized SQL/NoSQL workloads, enabling policy-driven backup, disaster recovery, and high availability with 99.9% uptime.
- Handled high-scale production support scenarios, performing root cause analysis across system, network, and hardware layers in fast-paced environments.
- Collaborated with cross-functional engineering and security teams to ensure secure device management, policy enforcement, and platform stability.

PROJECTS

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

[GitHub](#)

- Devised a 10-service AI microservices platform on AWS EKS using Argo CD GitOps with 7-wave ordered sync, achieving zero-downtime deployments.
- Leveraged IRSA (IAM Roles for Service Accounts) for mcp-control-plane service, eliminating static AWS credentials via OIDC-federated STS token exchange.
- Integrated Claude Sonnet-4.6 tool-calling agent capable of querying live platform services (cluster status, payments, products) to answer operator questions.
- Built Kustomize overlay strategy with separate EKS (production) and microk8s (dev) environments, including HPA on API gateway (2–10 replicas at 70% CPU)

GitOps Platform Engineering (EKS – Kubernetes – Argo CD – Terraform)

[GitHub](#)

- Instituted a GitOps platform using Argo CD and declarative workflows, improving deployment consistency by 50% and reducing manual releases by 40%.
- Architected modular infrastructure and application patterns aligned with platform engineering standards, enabling scalable deployments across development, staging, and production environments and accelerating service onboarding by 30%.
- Modernized CI/CD pipelines with self-healing capabilities, reducing deployment failures by 35% and strengthening platform reliability.

Cloud Cost Spike Detector (FinOps ML) – MLOps + Time-Series Anomaly Detection

[GitHub](#)

- Constructed an end-to-end ML platform to detect abnormal cloud cost spikes from billing data, enabling proactive FinOps monitoring, forecasting, and budget governance.
- Streamlined time-series feature pipelines and anomaly detection using Isolation Forest to identify deviations and estimate financial impact across cloud services.
- Crafted scalable REST APIs and an executive dashboard with burn-rate tracking, service visibility, and CI/CD integration to support future AI-driven cost optimization.

AWARDS & CERTIFICATIONS

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

EDUCATION

Associate Degree in Computer Science and Programming
MIT (Massachusetts Institute of Technology), USA

Graduated: 2023

Applied Science (AMM)
(Conestoga College), Canada

Graduated: 2019

Bachelor of Mechanical Engineering
(RK University), India

Graduated: 2015