

# HARSH PARDHI

## Azure Cloud & Automation Engineer

Cloud Operations · Infrastructure as Code · Microsoft 365 & Power Platform

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### SUMMARY

Azure engineer with 2+ years in cloud operations for enterprise clients. I move workloads into **Microsoft 365**, replace repetitive administration with **PowerShell** and **Python**, and build the reporting that helps teams act on what they find. I also design and deploy Azure infrastructure with **Terraform**, Docker and Kubernetes, and build internal tools on the Power Platform.

### TECHNICAL SKILLS

|                            |                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Azure</b>               | Virtual Machines, VM Scale Sets, VNet, NSG, Load Balancer, Traffic Manager, Blob Storage, Azure SQL, Entra ID, RBAC, Key Vault, Azure Monitor, Log Analytics (KQL), Cost Management |
| <b>IaC &amp; DevOps</b>    | Terraform, Docker, Kubernetes (AKS), Argo CD, Ansible, GitHub Actions, Azure DevOps, Git, CI/CD                                                                                     |
| <b>Observability</b>       | Prometheus, Grafana, Azure Monitor, Log Analytics                                                                                                                                   |
| <b>Scripting</b>           | PowerShell, Python, Bash, SQL, REST APIs, Microsoft Graph API                                                                                                                       |
| <b>Microsoft 365</b>       | Power Apps, Power Automate, Power BI, Copilot Studio, SharePoint Online                                                                                                             |
| <b>OS &amp; Networking</b> | Linux, Windows Server, DNS, TLS/HTTPS, routing, firewalls, load balancing                                                                                                           |
| <b>AI &amp; MLOps</b>      | Azure AI Foundry, Azure ML, MLflow, DVC, prompt engineering                                                                                                                         |

### EXPERIENCE

#### Associate Software Engineer — Cloud Operations & Microsoft 365 Administration

Jul 2024 – Present

Hexaware Technologies Ltd.

Chennai, India

- Migrated on-premises OneDrive data for **5,000+ users** to **Microsoft 365** using ShareGate, writing **PowerShell** scripts to provision the target sites, grant the migration team site collection administrator rights, and run the initial and delta passes.
- Automated the post-migration checks the same way — reconciling file counts between source and target and stripping the temporary admin rights once each site was verified — so cutovers ran overnight unsupervised.
- Ran the technical delivery of a storage analytics project: deployed **StorageX Analytics** (Data Dynamics) and used **PowerShell** to extract data for **9 storage virtual machines across 2 clusters** into CSV.
- Turned that CSV into **10 Power BI reports** showing which users held the most data and where **ACL exposure** existed, so the client could reclaim capacity and fix access. Delivered in **3 months** with the reports and a written technical findings document — the client sent a formal appreciation note.
- Migrated **132 Power Apps** and **50+ Power Automate flows** to a new tenant for an insurance client, and created a **SharePoint site** with a Power BI dashboard so stakeholders could track progress and raise issues themselves.
- Built **Transcend**, a Power App on five SharePoint lists with a **Copilot Studio** agent and embedded Power BI. It is now the transformation team's primary project management tool, with **20 projects onboarded** and **Power Automate** alerting managers on resource rollofs and milestones.
- Built a **Terraform** landing zone with remote state in Azure Storage as a proof of concept for a client evaluation, and wrote the runbooks and SOPs their team used afterwards.

### PROJECTS

#### InfraGenie — AIOps Platform for Azure

[github.com/HP04Harsh/infragenie-aiops](https://github.com/HP04Harsh/infragenie-aiops)

Python, Terraform, Docker, Ollama, Qwen2.5-Coder, ServiceNow

- A self-service platform for Azure infrastructure. An engineer describes what they need in plain English; the platform matches the request to a reusable **Terraform** module and runs policy checks before anything is applied.
- After deployment it keeps watching the resource — it remediates common failures on its own and logs a **ServiceNow** ticket, so a problem is fixed and recorded rather than escalated at 2 a.m.
- A reporting agent publishes **10+ operational reports** on a schedule — FinOps spend, weekly digest, orphaned VMs and others — so cost and drift surface before they become incidents.
- Kept development cost at zero by running **Qwen2.5-Coder** locally on **Ollama** in Docker as the coding assistant, wired into VS Code. Architected the platform myself and wrote it against **SOLID principles** with structured **prompt engineering**, so every generated change stayed small and reviewable.

#### Azure Multi-Region Disaster Recovery

[github.com/HP04Harsh/azure-multi-region-dr-terraform](https://github.com/HP04Harsh/azure-multi-region-dr-terraform)

Terraform, Traffic Manager, VM Scale Sets, Azure SQL

- A two-region, three-tier Azure environment built to answer one question: if the primary region fails, how fast can the application come back? Provisioned entirely in **Terraform** across Central and South India.
- VM Scale Sets** serve the web and application tiers, geo-replicated **Azure SQL** holds the data, and **Traffic Manager** with Load Balancers routes traffic between regions.
- Written as reusable modules with remote state and locking, using an **active/passive** topology so standby cost stayed proportionate to the recovery target instead of doubling the estate.

### CERTIFICATIONS

- Microsoft Certified: Azure Administrator Associate (AZ-104)** — Aug 2026
- Microsoft Certified: DevOps Engineer Expert (AZ-400)** — exam scheduled Sep 2026
- HashiCorp Certified: Terraform Associate (004)** — in progress

### EDUCATION

**Master of Computer Applications (MCA)** — Online, pursuing

2025–2028

Mangalayatan University

**Bachelor of Computer Applications (BCA)** — CGPA 8.90/10

2020–2023

Dr. Babasaheb Ambedkar Marathwada University