PORVINDER SINGH

Cloud Architecture & DevOps | Azure & AWS | Terraform | Azure DevOps

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PROFESSIONAL SUMMARY

Cloud architect with 8+ years at Mismo Systems and five years of AWS experience. Owned development and deployment of Cazper (live) and Ledgr (pilot). Experience includes Azure Container Apps, Terraform, Azure DevOps and identity integration.

TECHNICAL SKILLS

Cloud: Microsoft Azure, AWS, Azure Container Apps, virtual machines, virtual networks, NSGs and storage.

Infrastructure automation: Terraform, reusable infrastructure modules and environment standardization.

Deployment & CI/CD: Azure DevOps, GitHub Actions, delivery pipelines and containerized applications.

Identity & integration: Microsoft Entra ID, Keycloak, REST APIs and Microsoft Graph.

Monitoring: Azure Log Analytics and PostHog.

Applications & data: Python, FastAPI, Next.js, PostgreSQL, LangChain, LangGraph, MCP, Microsoft 365, Power Apps, Power Automate and Dataverse.

PROFESSIONAL EXPERIENCE

Cloud Architect | Mismo Systems

January 2023 – Present | New Delhi, India

- Owned full development and deployment of Cazper, now live, and Ledgr, currently in pilot, across application architecture, infrastructure and delivery.
- Developed Azure infrastructure configuration using Terraform and application delivery pipelines using Azure DevOps for containerized workloads.
- Defined infrastructure standards, access controls, tagging and cost governance, and advised clients on cloud architecture and implementation.
- Translated business requirements into technical designs, proposals, Statements of Work and delivery plans.

Cloud Consultant | Mismo Systems

June 2020 – December 2022 | New Delhi, India

- Designed Power Platform applications and workflow automation, integrating external systems through REST APIs and Microsoft Graph.
- Planned Microsoft 365 migrations covering mailboxes, SharePoint and Teams, and supported client workshops, demonstrations and solution design.

Cloud Engineer | Mismo Systems

July 2018 – May 2020 | New Delhi, India

- Implemented Azure virtual machines, networking and storage, supported Microsoft 365 provisioning, and troubleshot production issues.
- Built automation workflows and supported deployment of Power Apps and Power Automate solutions.

SELECTED PROJECTS

CAZPER | Live analytics platform

Owned end-to-end development and deployment of a multi-tenant platform for querying customer databases and connected business applications through natural language.

- Built the platform using Next.js, FastAPI, PostgreSQL and Keycloak, with Azure Container Apps deployment and Azure DevOps delivery pipelines.
- Built LangChain and LangGraph orchestration for question interpretation, SQL planning, generation, verification, execution and answer synthesis.
- Implemented user-level database access checks and read-only SQL validation before execution, with tenant-specific schema and business context.
- Built MCP-based application integration with OAuth, tool discovery and execution, including Zoho Bigin support and per-user application assignments.
- Designed AI workflows for customer environments with a focus on database permissions, sensitive-data exposure and personally identifiable information (PII).

LEDGR | Azure cost management platform – Pilot

Owned full development and pilot deployment of a platform for managed service providers to investigate customers' Azure costs and infrastructure.

- Modelled organizations, customers, Azure tenants, subscriptions, resources and dated cost records to support historical analysis and organization-scoped data access.
- Preserved customer assignments across repeated discovery and linked cost imports to the relevant organization, subscription, metric and date range.
- Built actual and amortized cost reporting, period comparisons, exports and resource change history with point-in-time queries.

Azure infrastructure standardization & Microsoft 365 migration

- Built reusable Terraform modules for resource groups, VNets, NSGs, VMs and networking; standardized provisioning across development, test and production environments.
- Planned and delivered multi-phase Microsoft 365 tenant migrations, including sequencing, permissions, pilot execution and rollback planning.

porvinder.com | This site

- Static Next.js site on AWS S3 and CloudFront, all infrastructure in Terraform, deployed by GitHub Actions with OIDC (no stored AWS keys).

CERTIFICATIONS

- Microsoft Certified: Azure Solutions Architect Expert (since 2023)
- Microsoft Certified: Azure Virtual Desktop Specialty (since 2023)
- AWS Certified Solutions Architect – Associate (since 2020)