MIHIR MAURYA

Cloud & DevOps Engineer

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PROFESSIONAL SUMMARY

Fresher Cloud & DevOps Engineer pursuing an M.Sc in Computer Science at the University of Allahabad, following a B.Sc in Mathematics and Computer Applications. Hands-on experience architecting Azure Hub-Spoke network infrastructure using modular Terraform, enforcing IaC security through tfsec and Checkov, and building secretless CI/CD pipelines with GitHub Actions and OIDC. Comfortable across Linux, Git, and scripting in Python, Bash, and PowerShell, with a growing foundation in Docker and Kubernetes.

TECHNICAL SKILLS

Cloud & Infrastructure: Microsoft Azure, Terraform (IaC), Azure Application Gateway, Azure Bastion, Azure VNet/NSG, Azure VM, Docker (basics), Kubernetes (basics), Prometheus, Grafana

CI/CD & Automation: GitHub Actions (OIDC / Workload Identity Federation), Azure DevOps, Git & GitHub

Security & Governance: tfsec, Checkov, Microsoft Entra ID (RBAC), Cloudflare

OS & Scripting: Linux (Ubuntu), Bash, PowerShell, Python, C++

Backend & Data: PHP 8.x, MySQL, REST APIs

EXPERIENCE

Cloud & DevOps Engineer Intern, DevOps Insiders *Jan 2026 - Present*

Architected and deployed a multi-tier Azure Hub-Spoke network for a shared cloud learning environment, enforcing security scanning and secretless CI/CD throughout.

- Deployed modular Terraform IaC with custom, reusable modules (network, vpn, key_vault) across a Hub-Spoke VNet topology, using for_each loops to dynamically provision subnets and reducing manual provisioning time from days to under 15 minutes.
- Load-balanced a dynamic web application across 3 Azure VMs using Application Gateway, exposed to the public internet via a Cloudflare-managed subdomain, with NSGs scoped to only the required ports.
- Enforced pre-merge IaC security scanning with tfsec and Checkov — catching real risks such as missing NSGs and disabled Key Vault purge protection — blocking 100% of misconfigurations before deployment.
- Built a secretless CI/CD pipeline in GitHub Actions using Workload Identity Federation (OIDC) and locked terraform plan -out artifacts for predictable deployments, eliminating 100% of stored service-principal secrets.
- Restructured Terraform code into isolated hub / spoke-dev / spoke-prod environments with separate remote state files, enabling parallel pipeline execution without state-lock conflicts.
- Migrated deployment automation from local PowerShell scripts to Azure DevOps YAML pipelines authenticated via a dedicated App Registration service connection; stood up and maintained a self-hosted build agent, debugging errors along the way.
- Managed access governance via Microsoft Entra ID and RBAC across the shared environment.

Tech Stack: *Microsoft Azure, Terraform, GitHub Actions (OIDC), Azure DevOps (YAML Pipelines), tfsec, Checkov, Microsoft Entra ID, Linux, Bash, PowerShell*

EDUCATION

M.Sc, Computer Science *2026 - 2028 (In Progress)*

University of Allahabad

B.Sc, Mathematics & Computer Applications *2023 - 2026*

Ewing Christian College, Allahabad

PROJECTS

FlexZone — Fitness Tracking API on Azure *Mar 2024 - Present*

Built and hosted a full-stack fitness-tracking REST API, later hardened and migrated onto Azure infrastructure with edge security.

- Developed a RESTful API in PHP 8.x with a relational MySQL schema, serving requests in under 200ms.
- Provisioned and secured the Azure VM hosting environment via Terraform, configuring NSGs to restrict unauthorized ports.
- Hardened domain security (b18g119.online) using Cloudflare CDN, improving content delivery speed by roughly 30%.

Tech Stack: *PHP 8, MySQL, Terraform, Azure VM, Cloudflare, Linux*