

KARIM EL ATFY

Junior Cloud & DevOps Engineer | Cloud Operations | IT Support

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PROFESSIONAL PROFILE

Computer Engineering student at Politecnico di Milano and Microsoft Certified Azure Fundamentals (AZ-900), building a hands-on junior profile around Azure, Terraform, Linux, networking, containers, Kubernetes/AKS and CI/CD. Public portfolio includes six Azure IaC projects progressing from Linux VM deployments to a full AKS GitOps platform. Practical focus: translating requirements into working deployments, documenting architecture and runbooks, collecting validation evidence, troubleshooting failures, and improving security, observability and cost cleanup.

TECHNICAL SKILLS

- **Cloud & Azure:** Azure Resource Groups, Virtual Networks, Subnets, NSGs, Linux VMs, Bastion, Load Balancer, ACR, Container Apps, AKS, Key Vault, Managed Identity, RBAC, Log Analytics, Application Insights, Azure Monitor.
- **Infrastructure as Code:** Terraform, OpenTofu basics, modules, variables/outputs, remote state on Azure Storage, layered deployments, environment-specific configuration, Azure CLI.
- **Containers & Kubernetes:** Docker, Docker Compose, multi-arch image builds, Kubernetes workloads, pods/deployments/services, probes, rollout strategies, Helm charts/values, Flux v2 GitOps, GitRepository/HelmRelease, NetworkPolicy, Secrets Store CSI Driver, kubectl/helm/flux diagnostics.
- **CI/CD & DevSecOps:** GitHub Actions, OIDC federated authentication, CI/CD workflows, Checkov, Trivy, pytest, smoke tests, image tagging by Git SHA, secretless deployments, least privilege.
- **Systems, Networking & IT Support:** Linux, Windows 10/11, Microsoft 365, Outlook, Teams, SharePoint, OneDrive, TCP/IP, DNS, DHCP, subnetting, routing/switching concepts, VPN concepts, firewall concepts, troubleshooting, hardware/peripheral support, ticket triage.
- **Programming & Scripting:** Python, FastAPI, PowerShell, Bash, C/C++, YAML, automation-oriented CLI scripting.
- **Operations & Documentation:** README/runbook writing, architecture diagrams, ADRs, evidence collection, incident notes, prioritization, escalation, user communication and clean handover.

RELEVANT TECHNICAL PROJECTS

Azure Terraform AKS GitOps Secure Platform | Portfolio project | AKS / Helm / Flux / ACR / Workload Identity / DevSecOps

- Built an end-to-end AKS platform: Terraform provisions Azure resources, GitHub Actions builds and pushes a FastAPI image to ACR, and Flux reconciles a Helm release into AKS.
- Implemented OIDC authentication, AKS Workload Identity, Key Vault secret mounting through Secrets Store CSI Driver, NetworkPolicy, securityContext, Checkov/Trivy scanning, and Python/Docker/Helm validations.
- Debugged a real rollout issue on a cost-conscious single-node AKS cluster: RollingUpdate caused a Pending pod and Helm timeout; fixed it with a configurable deployment strategy and documented the trade-off in an ADR.

Azure Terraform DevSecOps Container Platform | Portfolio project | Azure Container Apps / Docker / Terraform / GitHub Actions OIDC

- Containerized a FastAPI API and deployed it to Azure Container Apps with Terraform, ACR, GitHub Actions and post-deployment smoke tests.
- Used OIDC and Managed Identity to avoid static Azure credentials, separated Terraform into layered stacks, and integrated Key Vault, Log Analytics and Application Insights.
- Added Checkov and Trivy gates for IaC, image and secret scanning, with operational documentation for deployment, troubleshooting, cost and cleanup.

Azure Infrastructure Progression - L1 to L4 | Portfolio projects | Terraform / Linux / Networking / Bastion / Load Balancer

- Built a public Azure IaC progression: Linux VM with Nginx/cloud-init, secure two-tier network, private-first platform, and load-balanced web platform.
- Practiced VNet/subnet design, NSGs, SSH keys, Bastion access, private backend VMs, Azure Load Balancer, health probes, backend pools, remote state concepts and modular Terraform.
- Focused on readable infrastructure, documented deployment flow, validation checks, destroy order and production-minded hardening notes.

PROFESSIONAL EXPERIENCE

Administrative & Accounting Support | Furizon APS | 2025 - Present

- Manage back-office work including invoices, orders, suppliers, reimbursements, membership fees, reconciliations, reports and sensitive member/accounting records with accuracy and confidentiality.
- Work with procedures, priorities, deadlines, documentation and internal communication, developing transferable skills for ticket management, user support and operations.
- Perform daily data checks, cross-verification, traceability and operational ownership in an event/community environment.

Retail Operations & Document Support | Libraccio | Summer 2024

- Supported retail operations: customer assistance, sales floor support, goods handling, shelf/display replenishment and commercial orderliness.
- Managed logistical and administrative documentation flows including orders, delivery notes/DDTs, operating documents, goods checks and back-office support.
- Communicated clearly with customers and team members, handled variable priorities and maintained accuracy in a high-volume retail environment.

Data Entry / Quality Support Intern | Whirlpool, Cassinetta | 2023

- Performed data entry, data checks and quality support on database/Excel workflows in a structured enterprise environment.
- Worked with traceability, precision, procedures and data quality standards.

EDUCATION & CERTIFICATIONS

- Politecnico di Milano - Computer Engineering, in progress.
- Microsoft Certified: Azure Fundamentals (AZ-900) - achieved.
- Microsoft Azure Administrator (AZ-104) - preparing; focus on identity/governance, storage, compute, virtual networking, monitoring and Azure maintenance.
- Cisco CCNA - preparing; focus on subnetting, routing, switching, VLANs, troubleshooting and networking foundations applied to cloud.
- Continuous learning: Azure administration, Terraform best practices, Linux operations, Docker, Kubernetes/AKS, GitOps, monitoring and cloud security basics.

LANGUAGES

Italian: native | English: C1 / advanced | French: B1 / intermediate | Spanish: A2 / learning | German and Russian: learning

STRENGTHS

- Fast, practical learning approach: turn theory into deployments, tests, READMEs, diagrams and runbooks.
- Operational mindset: evidence collection, troubleshooting notes, cleanup awareness, clear handover and accountable follow-through.
- Clear communication with technical and non-technical stakeholders, strong motivation to grow in Azure, Cloud Operations and DevOps.

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