Baker Alakhras

Software Engineer

Cloud-focused software engineer with hands-on experience in building real-time infrastructure tools and deploying scalable systems on Azure using Docker, Terraform, and CI/CD. Proven ability to build end-to-end cloud-native pipelines, automate ops with Python, and implement intelligent monitoring with Prometheus and AI APIs.

- bakrfalakhras@gmail.com
- Amman, Jordan
- linkedin.com/in/bakr-alakhras
- +962796409871
- bakralakhras.github.io/portfolio/
- github.com/bakralakhras

EDUCATION

Software Engineering
Bahcesehir University Undergraduate

10/2021 - 07/2025   *Istanbul, Turkey*

GPA: 3.51

- High Honor List | Top 5% of faculty

WORK EXPERIENCE

Cloud Consultant Intern
PwC Middle East

08/2024 - 10/2024   *Amman, Jordan*

Tasks

- Developed scalable web applications on **Azure**, leveraging **Docker** to containerize applications and optimize deployment processes in a distributed environment.
- Designed and implemented **CI/CD pipelines**, automating testing and deployment workflows to enhance development agility and ensure high-quality software delivery.
- Built and deployed infrastructure using **Terraform**, enabling automated provisioning and management of cloud resources to support scalable and resilient architectures.
- Utilized **Python** for scripting and automation, solving complex challenges related to cloud infrastructure management and enhancing system performance.
- Monitored and optimized system performance using **Prometheus and Grafana**, analyzing key metrics to drive operational efficiency and system reliability.

DevOps Intern
EarTech IT

11/2023 - 01/2024

Tasks

- Engineered Python-based applications and deployed them through **CI/CD** workflows, leveraging Azure Virtual Machines and Azure Functions to improve deployment efficiency and reduce manual intervention.
- Automated repetitive tasks using Python scripts, accelerating processes and streamlining the integration of **Azure SQL Database** and Azure Cognitive Search within CI/CD pipelines.
- Optimized application performance and deployment, reducing downtime and enhancing UX by integrating Azure Blob Storage, Azure CDN, and Cosmos DB to refine system responsiveness and stability.

SKILLS

`Azure` `AWS` `Terraform` `Docker` `CI/CD` `Kubernetes` `Prometheus` `Grafana` `Python` `Java` `Azure SQL` `LookerML` `MySQL` `Git` `Linux` `Azure Functions`

PERSONAL PROJECTS

IncidentVault — Modular Incident Management
- Built a FastAPI-based microservice for incident reporting, deployed with Docker, Terraform, Helm, and Kubernetes for full-scale infrastructure automation.
- Implemented CI/CD pipelines via GitHub Actions and database migrations using Alembic, ensuring test-driven deployment.
- Integrated Prometheus for observability and Grafana for visualization, enabling scalable real-time monitoring.

Customer Segmentation Pipeline — Azure & LookerML
- Developed a modular data pipeline using Python to cluster customer data with silhouette-optimized KMeans and DBSCAN models.
- Uploaded segmented results to Azure SQL and created interactive dashboards in Looker Studio (GCP) using custom LookerML models.
- Streamlined data cleaning, normalization, and BI delivery to support real-time marketing insights.

SentinelAI — Real-Time Autonomous Cloud Responder
- Created a cloud-native incident responder using FastAPI, Prometheus, and Docker, with alerting and automated workflows via Slack.
- Integrated Cohere API to generate AI-driven troubleshooting steps and trigger self-healing scripts for infrastructure stability.
- Deployed on Azure with Terraform and Docker Compose, optimizing for real-time AIOps automation and resiliency.

CERTIFICATES

Azure Fundamentals(AZ900) (08/2024 - Present)

Azure Administrator(AZ104) (12/2024 - Present)

AWS Certified Solutions Architect
(Ongoing)

LANGUAGES

English
Native or Bilingual Proficiency

Arabic
Native or Bilingual Proficiency

Turkish
Limited Working Proficiency