Mohamad Usama KUNNATHUR

DevOps Engineer

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ABOUT

I am a highly skilled **Infrastructure & DevOps Engineer** with almost five years of experience in managing, automating, and optimizing cloud and on-premise infrastructures. With a strong background in Linux, networking, and security, I excel in deploying and maintaining scalable and resilient infrastructures.

SKILLS

Proficient: AWS (EC2, VPC, S3, SQS, SNS, etc.), Python, JavaScript (NodeJs, React), Linux, IaC (Ansible, Terraform, etc.), CI/CD (Bamboo, Gitlab, Jenkins), Docker, Kubernetes

Moderate: Azure (VM, Pipeline, CLI, Policy, etc.), Postman, Selenium, Monitoring (Grafana, Prometheus, Loki), Atlassian suites, Jmeter, Database (DynamoDB, MySQL, Elasticsearch, etc.)

EXPERIENCE

Sense Reply, Bari, Italy (Remote) - *DevOps Engineer*

Nov 2024 - PRESENT

- Managing and upgrading Site controllers (VMs) using **Ansible** and **Linux.**
- Creating infrastructure using **Terraform** and CI/CD pipeline with **Jenkins**.

Infocert, Bari, Italy (Remote) - *DevOps Engineer*

Oct 2023 - Nov 2024

- Managing **Kubernetes clusters** and implementing **observability solutions.**
- Migrating legacy applications to **cloud and hybrid environments** (AWS, Azure).

Idea 75, Bari, Italy (Hybrid) - *DevOps Engineer*

Oct 2022 - Oct 2023

- Optimized cloud resource allocation, **reducing infrastructure costs**.
- Ensured **high availability and fault tolerance** using **load balancing & auto-scaling**.

Storm Reply, Turin, Italy (Hybrid) *- Cloud Developer*

MAY 2020 - OCT 2022

- Developed and maintained **automated** infrastructure using **Cloudformation**.
- Managed IoT devices using **SNS, SQS, Lambda, Step functions**, etc.

PROJECTS (BOSCH AI ACCELERATOR PROGRAM)

Deploying a scalable IaaS web server in Azure (link)
- Using Terraform to create infrastructures like Virtual Networks, Virtual Machines, etc.
- Creating a custom VM Image using Packer and then deploying it in VMs

Building a CI/CD pipeline (link)
- CI using GitHub Actions to automate unit testing and linting to keep the code prod ready
- CD using Azure Pipelines, which builds and deploys a Flask app to Azure App Service

Ensuring quality releases (link)
- Automated testing like API (Postman), Functional UI (Selenium) & Performance (Jmeter)
- Also configuring Custom Log ingestion & Custom Alarm metrics.

Techtrends: Container Orchestration (link)
- Vagrant to provision a custom virtual machine environment in VirtualBox
- Deploy an app to a Kubernetes cluster using Helm chart & ArgoCD

EDUCATION

Bosch AI Talent Accelerator Program (Udacity, Online) *- DevOps Engineer*

JULY 2022 - NOV 2022

- Experienced infrastructure automation with hands-on projects.(link)
- Followed clean code principles and focused on cloud-native apps

Udacity, Online *- Front-End Web Development*

JAN 2020 - MAR 2020

- Focus on CSS, JavaScript, APIs, Build tools & Express—NodeJS for the backend.(link)
- Front-end libraries such as React. The projects can be found on my GitHub

Politecnico di Torino, Turin, Italy *- M.S Engineering & Management*

SEP 2017 - MAR 2020

- Learned about Information Systems, project and data management
- Thesis on "Applying AI Techniques on Project Management" (link)

THK University, Ankara, Turkey *- B.S Aeronautical Engineering*

SEP 2012 - JUNE 2016

- Concentration in Aerodynamics, FEM & CAD
- Academic internship on solving Navier-stokes equation using Python