Mohamad Usama KUNNATHUR

DevOps Engineer

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ABOUT

I am a DevOps and Cloud Engineer, harnessing over four years of expertise in crafting, automating, and nurturing Cloud infrastructure and environments. As a quick learner and team player, I bring a blend of skills and a keen interest in AI, backed by a background in Management and Engineering, granting me a distinctive outlook within the team.

SKILLS

Proficient: AWS (EC2, VPC, S3, SQS, SNS, etc.), Python, JavaScript (NodeJs, React), Linux, IaC (Cloudformation & Terraform), 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

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

Oct 2023 - PRESENT

- Working on Identity products such as SPID, Gosign, etc.
- Orchestrating containerization for legacy application modernization
- Migrating on-premises applications to cloud platforms
- Administering databases and overseeing observability measures

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

Oct 2022 - Oct 2023

- Facilitate deployment automation and CI/CD. Monitoring and observability.
- Reduce bottlenecks (Build times, latency) and optimize costs (Rescaling resources)
- Ensure zero downtime and high availability (Load balancing & autoscaling resources)

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

MAY 2020 - OCT 2022

- Developed lambda functions and facilitated pipeline automation (Python & NodeJS)
- Troubleshooting and fixing errors. Test automation (Functional, UI, Performance)
- Recommended redimensioning of resources, saving $10k / month

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)
- GitHub actions to create a custom Docker image and push it to DockerHub
- Vagrant to provision a custom virtual machine environment in VirtualBox
- Deploy an app to a Kubernetes cluster using Helm chart & ArgoCD

Best coding practices and unit test (link)
- Refactoring a Jupyter notebook into Python code using best coding practices.
- This involves precise documentation, adhering to pep8 specs & unit tests.

EDUCATION

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

JULY 2022 - NOV 2022
- Experienced infrastructure automation with hands-on projects.
- Followed clean code principles and focussed 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.
- 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

I hereby give consent for my data included in the application to be processed for the recruitment/internal process