



Mohamad Usama KUNNATHUR

DevOps Engineer

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ABOUT

A DevOps and Cloud Engineer with more than two years of experience in building, automating and maintaining Cloud infrastructure and environment. A quick learner, team player, and multi-skilled (check the [website](#)) with an interest in AI. A background in Management & Engineering means I bring a unique perspective to the team.

SKILLS

Proficient: AWS (EC2, VPC, S3, SQS, SNS, etc), Python, JavaScript (NodeJS, TypeScript, etc), Linux, IaC (Cloudformation & Terraform), CI/CD (Bamboo, Gitlab, Azure Pipelines)

Moderate: Azure (VM, Pipeline, CLI, Policy, etc), Docker, Kubernetes, Postman, Selenium, Jmeter, Database (DynamoDB, MySQL, Elasticsearch, etc)

EXPERIENCE

Idea 75, Bari, Italy - *DevOps Engineer*

Oct 2022 - PRESENT

- Co-ordinating with a group of developers spanning different projects.
- 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 - *Cloud Developer*

MAY 2020 - OCT 2022

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

Associazione Erminio Bullio, Turin, Italy - *Project Manager Intern*

MAY 2020 - OCT 2022

- Primarily involved in Project Lifecycle Management of a construction project
- Developed custom modules in Odoo PLM software using Python

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 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 testings 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 a 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 in my [GitHub](#)

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

SEP 2017 - MAR 2020

- Learnt about Information Systems, project and data management
- Thesis on "Applying A.I 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

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