 **Cumhur Mesut AKKAYA**

**CLOUDS & DEVOPS ENGINEER**

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**SUMMARY**

Having 3+ years of experience in IT Project Management. AWS Certified Cloud Practitioner. Expert in designing and building effective **Continuous Integration and Delivery (CI/CD) pipelines** using **containerization**, **orchestration**, **monitoring**, infrastructure automation tools, configuration management tools, and **AWS** solutions. Able to use **Jira** as a project management tool and agile methodology as a project management method. Highly adaptable, flexible professional DevOps engineer who embraces teamwork but also likes to work independently. Armed with remarkable problem solving, multitasking, and time management abilities.

**PROFESSIONAL EXPERIENCE**

**Upwork**  August 2022 – Present

**DevOps Engineer (Freelanche)**

* Hands-on experience in AWS provisioning and solid knowledge of AWS services like **EC2**, **S3**, **ELB**, **RDS**, IAM, Route 53, VPC, Autoscaling, CloudFront, Cloud Watch, Cloud Formation, Security Groups, **EKS**, **ECR**, and coding applications with **Python**.
* Built and Managed AWS infrastructure As A Code with **Cloud Formation** in 10+ projects.
* Worked on **Containerization** and Virtualization Projects with **Docker** and **Kubernetes**.
* Created and maintained fully automated **CI/CD pipelines** for code deployment using **Jenkins** and **Git**.
* Wrote **Ansible** playbooks and modules to deploy, configure, and manage 30+ servers.
* Automated the build & deployments for 20+ applications from end-to-end using **CI/CD** strategies with various DevOps tools and technologies.
* Monitored, analyzed, and reported performance statistics for cloud-hosted environments by using **AWS Cloud Watch**, **Prometheus**, **Grafana**.
* Built and configured 200+ EC2 instances on AWS cloud platform, the configuration of elastic load balancer (ELB) for traffic control for the EC2 instances and S3.
* Used **Maven** as build tools on Java projects for the development of build artifacts on the source code.

**Clarusway** July 2022 - January 2023

**AWS & DevOps Course Students’ Mentor**

* I helped to students in hands-on and projects of AWS cloud & DevOps.

**UME** April 2012- February 2015

**Security Coordinator (IT and Security Project Manager)**

* I managed a team of security guard and computer engineers to ensure the IT and physical security of confidential projects at the UME Institute as specified in the number 5202 "Defense Industry Security Law" and MSY 317-2 (C) "MSB Defense Industry Security Directive".
* To ensure the physical security of the facility; I used camera systems and camera tracking room, card pass system, permission and tracking of visitor entrances, patrol and guard system, with the team I lead. Also, for IT security, I managed authorization in the local network, isolation of local and internet computers, confidential document output and controlled storage of product samples in sensitive rooms.

**The Minister of National Defence**  August 2005 – December 2011

**HERİKKS, SENTİNEL and KALKAN system Instructor**

* I worked as an instructor in The Minister of National Defence in these projects: **HERIKKS** (A project that manages air defense activities by establishing a computer network with its own software. https://www.millisavunma.com/hava-savunma-Erken-ikaz-ve-komuta-kontrol-sistemi-herikks/), **SENTINEL** Radar (https://www.raytheonmissilesanddefense.com/what-we-do/land-warfare/sensors/sentinel-radar) and Aselsan **KALKAN** Radar (<https://www.millisavunma.com/kalkan>).
* Also, I took part in project meetings and documentation activities related to these projects.

**TECHNICAL SKILLS**

**Cloud (AWS) Services** | CloudFormation | EC2 | ECR | DynamoDB | CloudFront | S3 | API GW | Lambda | EFS | Boto3 | CloudWatch | RDS | MariaDB | ALB with ASG | Snapshots | Volumes | VPC | Route53 | IAM | AMI | Certificate Manager | Apache | Nginx | Flask | Tomcat || **Devops Tools** | Jenkins | Docker | Kubernetes | Jira | **Ansible** | **Terraform** | Scrum/Kanban | Helm | Grafana | Prometheus | Maven | Rancher | Selenium | **Linux** | Bash script | HTML | CSS | Git | GitHub | Slack

**SOFT SKILLS**

Team Management | Problem-Solving | Self-Motivated | Strong Communication | Project Management | Planning | Time Management | Adaptability | Continuous Learning | Collaboration & Teamwork | Coaching Mindset | Resilience | Emotional | Creativity | Leadership | Innovation | Analytical Thinking | Trust

**PROJECTS**

**Microservice Project:**

In this project, fully automated microservices application is used. Dockerized Web Application is developed in Java Springboot and Spring Cloud Frameworks and integrated with MySQL database. The project is to create full microservices, CI/CD Pipelines, and deployment on a Kubernetes cluster with monitoring. Kubernetes cluster is created and managed with Rancher. Jenkins is used as the CI/CD automation tool and created all the infrastructure on AWS EC2 Service. Also, GitHub is used as the version control system during the whole process. Base branches namely master, dev, and release are prepared for the DevOps cycle.

**Kubernetes Microservice Project:**

Phonebook Microservice Web Application aims to create a web application with MySQL Database using Docker and Kubernetes to give the understanding of Microservice architecture. In this application, there is a frontend service and a backend service to interact with database service. Each service will be managed by a Kubernetes deployment. The backend service will be a gateway for the application, and it will serve the necessary web pages for create, delete and update operations while the frontend service will serve a search page in order to conduct read operations. To preserve the data in the database, persistent volume and persistent volume claim concepts adopted.

**Bookstore API:**

Bookstore Web API Application with MySQL created a bookstore web service using Docker for containerization of an application. The application code is deployed as a RESTful web service with Flask using Dockerfile and Docker Compose on AWS EC2 Instance using Terraform.

**AWS Project:**

A web application written by Django Framework on AWS Cloud Infrastructure and deployed as a Blog Page Application. It has ALB with ASG of EC2 Instances and RDS on defined VPC, around which S3, Lambda and DynamoDB services are set. In addition, the Cloudfront and Route 53 services are located.

**EDUCATION**

**Gebze Technical University**, Jul 2015 -

Doctorate, Business Administration, Grade: 3,81. I took a break at the thesis stage.

**Istanbul University**, Oct 2014 - Jul 2020

Bachelor, Sociology, Grade: 3,7.

**Necmettin Erbakan University** Oct 2010 - Jun 2012

Master's Degree, Guidance and Psychological Counseling (GDC),Grade: 81.08.

**CERTIFICATIONS**

* Clarusway Boot Camp Certification.
* AWS Certified Cloud Practitioner.
* Risk Management in Information Security ISO 27005 Training.

**LANGUAGES:**

* Turkish : Native
* English : Upper Intermediate
* Arabic : Elementary