# YOKENDRAKUAMR P

# DEVOPS ENGINEER

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## PROFILE SUMMARY

Experienced DevOps engineer with a strong background in cloud infrastructure, automation, and continuous integration/continuous deployment (CI/CD). Skilled in designing, implementing, and maintaining scalable, secure, and efficient systems. Proven ability to collaborate with cross-functional teams to deliver high-quality solutions.

#### PROFESSIONAL SKILL

# TOOLS SKILL

Linux HTML & CSS GIT Jenkins
Java Javascript Docker Ansible
SQL React JS Kubernetes VS code

AWS (EC2, VPC, IAM, RDS, S3, Amplify, ALB) GitHub

## EDUCATION

## **MSc Computer Science**

2021 - 2023

Sacred Heart College (Autonomous), Tirupattur.

**CGPA: 6.9** 

# **BSc Computer Science**

2017 - 2020

Puratchi Thalaivar Dr.M.G.R. Govt Art & Science College, Madhanur.

**CGPA: 7.1** 

## CERTIFICATIONS

# Redington Foundation | Chennai

 I Completed the Centre of Excellence (IT - ITeS) Training Program from January 2022 to May 2023, conducted by KALVI TRUST.

#### Tecsacon Technologies | Bangalore

 I completed the DevOps training program conducted at Tecsacon Technologies in the BTM Layout, Bangalore.

## INTERNSHIP

#### **Boscosoft Company | Yelagiri**

• I successfully finished my Android in-plant training.

#### ACHIEVEMENTS

- I won 1st Prize in the Data Vizart event of Unravel 2023 conducted on 27 Jan 2023 by the Department of Data Science, Loyola College Chennai.
- I Won the 3rd Prize in the AD Mad-show on LOGIN 2023 conducted on 3rd Feb 2023.

## PROJECT

# Using load balancers, deploy web applications across many EC2 instances

- The procedure entails configuring an Application Load Balancer (ALB) with AWS EC2 to spread workloads over several servers and enhance application speed and stability.
- Enhanced performance: ALB enhances a system's overall performance by distributing incoming traffic across several targets equitably. This can speed up response times and enhance consumer satisfaction.
- Enhanced availability: Your application is more available because ALB keeps track of the health of the targets it has recorded and only directs traffic to those in good standing.
- **Greater scalability:** As your incoming traffic fluctuates over time, ALB adjusts the size of your load balancer. For the great majority of workloads, it can scale automatically.
- Enhanced security: ALB also offers security measures that may guard your data and systems, such as access control, authentication, and encryption.
- **Reducing downtime:** Automatically rerouting traffic away from unavailable servers or resources is possible using ALB.
- **Performing health checks:** To identify potential coding and HTTP issues, ALB performs health checks on connected services on a port-by-port basis.

## Docker-based web application containerization and Kubernetes cluster deployment

- Using Docker Hub as a registry for storing and sharing container images, this procedure makes it possible to containerize, version, and deploy web apps efficiently using Docker and Kubernetes.
- Docker-based web application containerization: In the application's directory, create a Dockerfile. Make use of the Dockerfile to create a Docker image.
- Forward the Docker Image to the Docker Hub: Docker login can be used to access Docker Hub. Push the image of Docker and tag it with your Docker Hub account.
- Implement Kubernetes: Generate the YAML files for Kubernetes Deployment and Services. Apply the YAML files to deploy the application to a Kubernetes cluster.
- Open the web application: Retrieve the external IP of the Kubernetes service. Using the given IP, access the web application.

# TOOLS LINKS

GitLab: https://gitlab.com/Yokendrakumar1999

DockerHub: https://hub.docker.com/u/yokendrakumar

GitHub: https://github.com/Yokendrakumar1999

AWS Account ID: 784390659805