

HEMANTH RAO K N

Software Development Engineer

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PROFILE

Highly motivated Software Engineer with **2.11 years** of experience in building SaaS products in **OCI** (Oracle Cloud Infrastructure) Cloud. Demonstrated ability to work on multiple projects in a fast-paced environment and meet tight deadlines. Experienced in developing Microservices, REST APIs, and pipelines using **Java, SpringBoot, Hibernates**, and **Scala**.

SKILLS

Languages	Core Java, Scala
Frameworks	Spring Boot, Spring, Hibernates, Akka-HTTP
Databases	MySQL, OCI NoSQL
Cloud	Oracle Cloud Infrastructure
Tools	Git, Docker, Terraform, Maven, Grafana, Postman, IntelliJ
Messaging	OCI Streams

EXPERIENCE

Oracle Cloud Infrastructure, Oracle, • Member Technical Staff

Sep 2020 - Present | Bengaluru

- Implemented **REST APIs** using **JAVA, Spring Boot** as part of the **Control Plane** and **Data Plane** of forecasting service.
- Implemented a Framework to access **OCI streams (Serverless messaging queue)**, and also to push and pull messages from the same. Which is used in the **Pipeline** to communicate among various components while **training** and **forecasting**.
- Designed and developed a feature called **Inline-forecast** using **JAVA** to help **customers with small data** so that they do not need to go through an additional step to create a container for input data that is small and needs quick results.
- Designed and Developed Microservices using **Akka-HTTP** framework and **Scala**. And also deployed it on the OCI cloud using **OCI Compute** services.
- Implemented algorithm to **aggregate data** from days-to-week, weeks-to-month, and months-to-years in **Scala** for **forecasting service kernel**.
- Implemented features like **Validations on user inputs, Training Messages, Status Messages**, and **OCI tags** as part of the **Data Plane** using **JAVA**.
- Contributed to **Architecture change** that is moving from **Oracle Deployment Orchestrator** based VMs to **OCI Data Science JOBS(Serverless compute)** to avoid the **noisy neighbour problem**. As part of the architecture change, converted the service application to the standalone app and **dockerized** the same to run in **Data Science JOBS** which also resolved the scalability problem.
- Contributed to **UI** implementation for forecasting service in **OCI console** using **React**.
- Created a complete infrastructure for forecasting services using **Terraform**, which included **OCI compute, Load Balancer, VCN, Subnets, Security Lists, Routing Tables, Service Gateway**, and **OCI NoSQL**, and **Object Storage services** for Development, Integration, and Production environments

EDUCATION

B E in Computer Science - R V College of Engineering, Bengaluru

2017-2020

Diploma in Computer Science - S J(Govt.) Polytechnic, Bengaluru

2014-2017

CERTIFICATIONS

[Oracle Cloud Infrastructure Foundations 2021 Associate](#)

2021-2023

ACHIEVEMENTS

Optimised DB update operations by 70%

Implemented the code to use SQL Dialect SQL Query with NoSQL DB) and wrote SQL dialect queries instead of ObjectMapper to perform more frequent database updates, which reduced the time spent on the operation by 70%