HEMANTH RAO K N

Software Development Engineer

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PROFILE

Highly motivated Software Engineer with **2 years and 11 months** 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, Mockito
Databases	MySQL, OCI NoSQL
Cloud	Oracle Cloud Infrastructure(OCI Compute, Load Balancer, Virtual Cloud Network, Subnets, OCI IAM, Object Storage service,, Data Science Jobs, Stacks)
Tools	Git, Docker, Terraform, Maven, Grafana, Postman, IntelliJ
Pu-Sub Tool	OCI Streams

EXPERIENCE

Oracle Cloud Infrastructure, Oracle, • Member Technical Staff   Sep 2020 - Present | Bengaluru

- Implemented **REST APIs, Microservices** using **JAVA**, and, **Spring Boot** as part of the **Control Plane** and **Data Plane** of forecasting service.
- Implemented a Framework to access **OCI streams (Serverless streaming platform)**, 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 a class structure for efficiently implementing multiple consumers within an Pipeline orchestrater, employing the **Factory design pattern** to dynamically select the appropriate consumer based on the given state.
- I have gained experience in the complete **Software Developement Life Cycle** (SDLC), effectively contributing to every stage of Product building, including requirement gathering, design, developement, and deployment.
- Implemented algorithm to **aggregate data** from days-to-week, weeks-to-month, and months-to-years in **Scala** for **forecasting service kernel**.
- Successfully integrated **OCI ML jobs (Serverless compute)** into the system, By using the **OCI authentication model.** This implementation effectively mitigated the **noisy-neighbor** problem and significantly enhanced the system's scalability.
- Developed a **version control** module based on **FlywayDB** to manage **OCI NoSQL queries** in java.
- Developed and implemented robust **exception handling** and **logging** strategies in adherence to industry best practices.
- Developed comprehensive **unit tests** for APIs, Pipelines, and all other modules of product in Java, utilizing industry-standard frameworks such as **JUnit** and **Mockito**. This meticulous testing approach ensured the scalability and robustness of the system, validating its functionality across various components and enhancing its overall performance.

- 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 update operations.