

Vaibhav Sanap

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Programming Language

Java, Golang,
Python, Javascript

Framework

Spring Boot, Spring (MVN,
Core, JPA), Hibernate,
ReactJS

Domain Knowledge

Subscription And Billing,
Cloud Computing, Cloud
Security, Identity
Management, Single Sign
on, Oauth 2.0, SAML,
Docker,
Kubernetes, Micro services,
Big Data Streaming, Data
Warehousing, Kafka,
MongoDB, NoSQL

Programming Skills

Data Structure, Algorithms,
Dynamic Programming,
Competitive Coding

Summary

- Cloud Application/MicroServices Developer with four years of experience.
- In HPE I worked on High throughput data streaming and data analytics project (Operation Bridge reporter). We used kafka with apache flink for data streaming and processing, Spring boot in web application layer and Vertica Data warehouse as data store.
- In Oracle I worked on Single sign on (Security) product Oracle Access Manager. OAM is used by almost all 500 fortune companies. OAM also has high risk customers like NASA. OAM is developed on event driven architecture. Frontend is developed using JSP, Backend is developed in core java.
- Currently in VMWare I am working for CSP(Cloud service platform) team. Cloud service platform is E-commerce website by VMWare. Customer can subscribe to VMWare cloud services using CSP platform. CSP platform backend is developed in MicroService architecture. Technologies we use here are Spring Boot, Java, RabbitMQ, Kafka, Pivotal Cloud foundry, Kubernetes, docker, MongoDB, Mariadb, Kong, ZUUL, vault.
- I am one of the contributor to Google's open source GoLang repo Go-Github.
- I like competitive coding and exploring cutting edge technologies.
- My hobbies are bike trips, Cycling and badminton
- Achievements : VMWare Global Hackathon winner, Third rank in VMWare Opensource Hackathon
- Open Source contributor to Go-Lang go-github repository by google. Also developed service mesh style project in VMWare hackathon using Go-Lang, Won the first prize for that. In VMWare open source hackathon contributed to spring boot plugin to create config-map, secretes in Kubernetes platform before application get deployed.

Work Experience:

1) MTS(Application Developer)

VMWare

Apr 2019-Till Now

- Work for CSP team. We develop the micro-services for Cloud Services Portal. As the name suggests, CSP is where customers can buy, upgrade, manage access, billing and consumption of the various VMware SaaS offerings including VMware Cloud on AWS (VMC) and VMware Hybrid Cloud Extension to just name a couple.
- I worked on end to end development of common discount framework service from scratch for CSP platform. CDF is one service which provides all discounts specific to a customer. Currently working on **offers service development from scratch**.
- Tech stack we use in our services is Java 8, Spring Boot, MongoDB, Maven, RabbitMQ, Eureka, Feign client, Hikari Vault and Redis Cache, Mariadb, MongoDB. Our microServices are integrated with SAP BRIM(Hybris Billing platform) for invoice generation and billing.

Certificate:

- 1) Kubernetes & Micro service: Lynda
- 2) Spring Boot:Udemy
- 3) ROR:Udemy

Education:

- 1) B.Tech Computer Engineering (COEP) – 7.5 CGPA
- 2) 12th - 80%
- 3) 10th - 92%

Work Experience:**2) Senior Software Developer****Oracle****March 2018 – Apr 2019**

Worked in Oracle Identity Management (IDM) team. My team used to work on development of Oracle Access Manager (OAM). OAM is Oracle Identity Management's solution for web access management and user identity administration. Services provided by OAM are as below

- Single sign on using cookie based authentication
- Single sign on across multi data center using MDC
- Oauth support for Native/Mobile client using dynamic client registration
- Oauth 2.0 implementation for 3 legged and 2 legged flow
- **Identity Federation** using Oauth OIDC and SAML

I worked on end to end Development of Dynamic Client registration using Oauth 2.0 and support for MDC and federation by fixing security bugs. Also worked on improvement Oauth OIDC feature. Currently working on development of new CI/CD process for upcoming releases.

Technologies we used- JAVA, Hibernate, Spring Boot, Oauth2.0, OIDC, SAML, SHA-2, Junit, PowerMockito, ReactJS, LDAP, Jenkins/Hudson, Docker, Kubernetes, MicroServices

3) System Software Engineer**Hewlett Packard Enterprise****August 2016-Feb 2018**

Worked as Java Developer on Reporting product which used to collect the server details using data agents deployed on clients server and after doing predictive analysis on the collected data was providing insights of server health like (overloading, under loading, traffic)in near future in the form of SAP BO reports.

- I worked on end to end development of data collector using Ratpack server and groovy for collecting the data and Kafka for streaming it for further use
- Also worked on data warehouse tool which used to delete the duplicate and invalid records from data warehouse tables. This tool was completely developed in java.

4) Intern**Persistent Systems****May 2015 – Aug 2015**

We worked on implementing google map api to get the coordinate for location provided using java.We worked on project which was based on Hadoop Map Reduce

Achievements:

1) Hewlett-Packard Enterprise internal Hackathon **winner** (team of 2)

2) VMWare Global Hackathon **Winner**

3) **State Rank Holder** in CET 2012(Maharashtra State)(Rank-136)

Projects:

● **Face Recognition Using Deep Learning(Team of two)**

We used python as the programming language.Used Face landmark estimation algorithm to detect the image in the pictures.Then we collected the measurement for the image using the deep learning.Then according to unique feature in measurement, we recognize the face.

● **Store Once(Processing of the incoming continuous streams of data)**

We used java as programming language and RatPack server to handle http/https request for sending and receiving the data.Ratpack server forward the data from http request to kafka topics.Next flink will consume the data from kafka topics then process it and move it to data warehouse

● **Power Profiling Container**

We developed a component that computes energy consumption by containerized applications. Collector to collect resource usage metrics(cpu only) from containers (docker) .

Compute energy consumption per container and aggregate at application level (leveraging container labels)

Push the computed power metric along with application tags in to elastic search

Deployed the collector/elasticsearch client as Kubernetes DaemonSet so that kubernetes as a platform would take care of power profiling applications

Visualize energy consumption in Kibana charts

This includes our collector self-power-profiling as well so that overhead caused by the collection is known
