

Sankalp Heranjal

Full Stack Software Engineer

<https://www.linkedin.com/in/hsankalp>
<https://hsankalp.github.io/portfolio>
sankalp.heranjal@gmail.com
(773) 240-4870

EXPERIENCE

Software Engineer | Ford Motor Company, Michigan Mar 2017 – Present

Autonomous Vehicles Simulation Service – Serverless Computing

- Working on a simulation platform that mimics real world scenarios for autonomous vehicles moving on the road for other teams to test their features in a risk-free environment.
- Migrating the existing Microservice application to Serverless architecture using AWS lambda functions, API Gateway, SQS, SNS and DynamoDB.
- Working on a POC to evaluate the performance of lambda functions with Java and NodeJS.
- Created a frontend application using ReactJS deployed on S3, where other teams can test the various simulation scenarios.
- Perform Pair Programming and Test-Driven Development (TDD) to achieve continuous delivery.

Subscription Management and Orchestration – Microservices

- Worked on a subscription management platform that orchestrated the events for activation of features in a vehicle.
- Migrated existing Monolith application to Microservices using Java, Spring Boot and Pivotal Cloud Foundry.
- Handled both synchronous and asynchronous communication between microservices using Rest APIs and RabbitMQ messaging.
- Performed Pair Programming and Test-Driven Development (TDD).
- Configured Concourse to create pipelines and setup automated workflows for Continuous Integration and Delivery.

Microservices Monitoring System – Web Application

- Created an alert dashboard that monitors the number of orders (and their status) in a day, the messaging queues piling up, health of microservices and any internal errors.
- Developed the application using ReactJS and Spring Boot.

Dead-Letter-Queue (DLQ) Message Replay Service – Web Application

- Worked on an application that monitored the messages that went to the dead letter queues and allowed developers to replay the messages back to their original queues once the issue was fixed.
- Developed the application using ReactJS and Spring Boot.

System Analyst Intern | Stanford University, California Aug 2016 – Mar 2017

Administrative Systems

- Worked on the support and enhancement of the Procure-to-Pay EBS application that managed the Stanford supplies
- Worked on the Oracle application framework using java and PL/SQL.

EDUCATION

Master of Science – Computer Science 2014 - 2016
Illinois Institute of Technology, College of Science, Chicago; GPA: 3.3

Bachelor of Engineering – Information Science and Engineering 2009 – 2013
Visvesvaraya Technological University, India; GPA: 3.6

SKILLS

Programming Languages

JavaScript ES6
Java

Web Development

HTML, CSS
ReactJS
Jest, React Testing Library
Bootstrap, Material UI

Middleware

Spring Boot
RESTful API
Gradle
JUnit, Mockito
NodeJS
Lambda Functions

Data / Data Processing

SQL Server
MongoDB
Redis

Messaging

RabbitMQ
SQS
SNS

Cloud Platforms

Pivotal Cloud Foundry
Amazon Web Services

Continuous Integration & Delivery

Concourse CI
Jenkins

IDEs

Visual Studio Code
IntelliJ IDEA

CERTIFICATIONS / AWARDS

Pivotal Cloud Foundry Developer v1.11
2018
Issued by Pivotal Software, Inc.

Best Business Case

2019
Awarded at Ford Resiliency Hackathon