

PAVAN KUMAR KOIKUR SUDHAKAR

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SUMMARY

Software engineer with experience in developing RESTful APIs in Python, SAP ABAP, and Java Spring. Experience in automation testing; Developed frontend applications using HTML, CSS, AngularJS, and ReactJS; Experienced in the databases like SQL, Amazon RDS, MongoDB, Cassandra, and Google Firebase.

PROFESSIONAL EXPERIENCE

Software Engineer, SAP Labs, Bangalore, India

Aug 2015 – Aug 2018

- Developed an OData REST API MDM Registry Service for data cleansing/entity resolution of Master Data from various data sources. Technology Used - Java, Spring Boot, Eclipse Link JPA, Redis, RabbitMQ, Apache Olingo.
- Integrated SAP Business Partner with smart IoT devices to generate health reports using AngularJS, Java, Spring Boot, HTML, CSS. Used JUnits for performing unit tests.
- Developed SAP Fiori Smart Template applications to access the central master data functionalities by using SAP ABAP, HTML, JavaScript, SAP Fiori, OData services, S/4 HANA database, and Jenkins.
- Designed and developed Business Partner and Product Master REST API with CRUD support using technologies like SAP ABAP, OData for third party integration, and optimized query efficiency of Business Partner REST API.
- Implemented screen-based automation test cases for customer master web application using selenium based START and ECATT automation tools.
- Worked as a functional expert in Business Partner and Product Master topics for S/4 HANA CLOUD. Interacted with customers and converted their needs into technical requirements for future cloud delivery.

Software Engineer Intern, IMRB International, India

Feb 2015 – May 2015

- Developed REST API using NodeJS for handling CRUD operations related to the Product saved in MySQL
- Maintained Continuous Integration and Deployment for code development using Jenkins.
- Designed and developed websites for MSME's using HTML, CSS3, Bootstrap, JavaScript, and node.js
- Used JIRA API for developing custom JIRA applications using HTML, CSS, Angular JS, and Bootstrap.

EDUCATION

Master of Science – Computer Science

GPA: 3.96

May 2020

California State University, Fullerton

Bachelor of Engineering – Information Science and Engineering

May 2015

Visvesvaraya Technological University, Karnataka, India

OTHER PROJECTS

Design2Code using Image Detection

- Developed a system to convert the design image into HTML code by using Image detection. Used Python Flask for creating REST API to transfer data to the backend system. Used ReactJS for building front end system and React-Redux for managing the state. Technologies used Python, OpenCV, tesseract, HTML, JavaScript, CSS, ReactJS, Redux

Movie Recommendation System

- Developed a user-based movie recommendation system in Python using Cosine Similarity, Matrix Factorization algorithms. Technologies used Python, Django, HTML, CSS

Playlist Microservices

- Implementation of APIs in Python 3 using Django and SQLite. Four microservices are hosted as four separate applications with CRUD activities for all four microservices.

Scaling the Playlist Generator Application

- Scaled the application by adding a Kong load balancer and configured it for the upstream servers. Enhanced the microservice to support horizontal scalability using sharding and implemented a new microservice to generate a playlist in the XSPF format.

Playlist Generator Application with Scylla DB

- Updated the code for the tracks, playlists, users, and descriptions microservices to use Scylla DB, a wide-column NoSQL database compatible with Cassandra. Enhanced the application using the Memcached service to save the response in JSON format and increase the performance of the API.

Fleet Management API

- Developed microservices using Java Spring Boot and exposed endpoints to gather data. Implemented Amazon SNS and SQS for queuing the messages and saved data onto Amazon RDS. Used JUnit for writing unit and integration tests. Containerized the microservices using Docker and hosted them on Amazon AWS ec2. Used git and GitHub for source control and Jenkins for CI /CD pipelines.

Game Station using C++

- Designed a replica of the game station using the object-oriented GRASP patterns which facilitates user creation, play a game, and buy a premium version. Developed the cross-platform application using the C++ programming language.

TECHNICAL SKILLS

Programming tools: Python, Java, SAP ABAP, JavaScript, C++, C

Database Systems: SAP HANA, Amazon RDS, SQL Server, MongoDB, Scylla DB, NoSQL

Other Skills: Rest API, SOAP, Git, Python Flask, Django, MVC, Spring Boot, Jenkins, JIRA, ReactJS, AngularJS, HTML, CSS, JSON, Redis, RabbitMQ, Amazon AWS