SIVAPRAKASH A J

SOFTWARE DEVELOPER

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[Linkedin](#) | [Portfolio](#)

PROFESSIONAL OVERVIEW:

Experienced Software Developer specializing in full-stack web application development, adept at designing dynamic, responsive user interfaces with React JS. Proficient in developing robust backend API services using Python FastAPI and Java Quarkus for high-performance applications. Skilled in seamless integration across the stack and managing scalable data storage with technologies such as Trino, Apache Iceberg, and S3. Demonstrates strong expertise in delivering optimized solutions for modern cloud and distributed systems. Committed to crafting efficient, maintainable, and innovative software solutions.

WORK EXPERIENCE:

Zaga Open Source Private Limited   **Software Developer**   **April 2023 – Current**

Observability – DataMesh

- Collaborated with the business team to analyze functional and technical requirements, ensuring alignment with business goals.
- Designed a robust product architecture based on analyzed requirements, ensuring scalability and reliability.
- Designed and developed an event-driven architecture, facilitating real-time data streaming and communication between microservices using Kafka.
- Developed framework for data analytics and exposed data as service using Python FastApi and exposed REST api for fetching data for analytics and Dashboard.
- Build a data ingestion framework using Python FastApi and ensuring seamless integration and efficient data flow across the application.
- Implemented a data mesh pattern featuring the federated query engine Trino for processing large data volumes.
- Utilized Iceberg/Hive Metastore as a central hub for metadata management and MinIO/S3 storage for data storage.
- Designed and developed the user interface using the ReactJS framework, ensuring a responsive user experience.
- Implemented best practices to enhance performance and maintainability of the application.

Application Platform and Technology:

Technology Stack	
Operating System	Red Hat Linux 9.3
Deployment Platform	Openshift 4.14
Federated Query Engine	Trino
Integration	Kafka, Python-FastAPI,Java-Quarkus
UI Framework	React JS
Storage	Minio-S3

VPBank Role–Based Access Control Vietnam   **Software Developer**   **Jan 2024 – Mar 2024**

- Developed a role-based access control system for VPBank using React for the frontend and PythonFastAPI for backend API services.
- Implemented role-specific access restrictions for various user types, including Admin, Gold, and Platinum customers, to ensure tailored access based on customer levels.
- Utilized Trino with file-based access control to define and manage data access rules, allowing precise schema and table-level access depending on user roles.
- Enabled dynamic permissions for creating, reading, updating, and deleting schema catalog tables, customized for each user role.
- Integrated loyalty data, such as transaction counts and frequency, to meet specific promotional program requirements (e.g., customer spending behavior for targeted campaigns).
- Streamlined user interface workflows, allowing users and administrators to efficiently interact with complex data access controls.

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Toolfe - IT Consultancy & Services   **Frontend Developer**   **Jun-2023 - Mar-2024**

Web Application for landing page Toolfe

- Developed landing websites using HTML, CSS, and JavaScript ,Bootstrap.
- Enhanced user experience and achieved webpage objectives through the design of site structure, navigation, page optimization, and UI/UX.
- Implemented enhancements aimed at improving web functionality and responsiveness.

Necurity Application

- Developed a Security Dashboard using React and Tailwind CSS, focusing on frontend implementation, responsive UI design, and feature integration.
- Collaborated with the team to optimize performance and functionality.
- Engaged in testing and debugging to ensure a seamless user experience.
- Delivered a user-friendly, visually appealing dashboard interface aligned with project goals.

Web Application for American Imperial University

- Created web pages for American Imperial University, focusing on design and functionality enhancements to improve user experience.
- Implemented responsive layouts and optimized performance using HTML, CSS, and JavaScript.
- Collaborated closely with university stakeholders to understand and meet specific project requirements.
- Ensured adherence to brand guidelines and maintained consistent design standards across all pages.
- Received positive feedback for delivering visually appealing and user-friendly web solutions.

Application Platform and Technology:

Technology Stack	
Operating System	Windows
UI Framework	ReactJS

SKILLS-TECHNOLOGY:

Programming Skills : Javascript, Python-FastAPI, Java-Quarkus

Web Development   : HTML, CSS, Bootstrap, Tailwind CSS

Framework   : ReactJS

Data Management : SQL, MongoDB, Trino, Minio S3

Cloud Platform   : Docker, Openshift.

EDUCATION:

- Dhanalakshmi College of Engineering

  B.E in Computer Science and Engineering

- University of Madras

  Master of Technology (Geo-Informatics)

LANGUAGES:

English, Tamil, Telugu.

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