

Mahesh Palan

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Software Development Engineer

Accomplished Senior Software Development Engineer with extensive experience driving impactful software solutions across diverse industry domains, including finance, e-commerce, mortgage, and healthcare. Expert in leveraging Java, AWS, and Python to craft robust applications and optimize database performance through SQL tuning and innovative custom solutions. Spearhead end-to-end development initiatives, enhancing scalability and operational effectiveness. Proven track record in leading cross-functional teams, embracing challenges, and introducing cutting-edge strategies to overcome limitations, ensuring seamless data flow and integration across systems.

Education

Bachelor of Engineering (Software Eng) Mumbai University

Areas of Expertise

Backend Development | Cross-Functional Leadership | SQL Tuning | Custom Materialized Views | Database Performance Optimization | Python Program | Software Architecture Enhancement | FHIR Standards | AWS Optimization | Data Pipeline | Global Leadership | Database Solutions

Certification

AWS Certified Solution Architect, Salesforce Platform Developer 1, Salesforce Platform Developer 2 ,Salesforce Administration

Skills

Programming Languages | Java, Python, Apex, SQL, JavaScript, HTML, CSS, Terraform (Devops)
Frameworks and Libraries | Spring Boot, Hibernate, JavaFX, Lightning Web Components
Cloud Services | AWS (EC2, S3, Lambda, RDS, CloudFormation, OpsWorks)
Salesforce | Salesforce Development (Apex, Visualforce, Lightning Components), Salesforce CLI, Metadata API
FHIR | Implementation and integration of FHIR standards for healthcare applications
DevOps | CI/CD (Jenkins, GitLab CI), Docker, Kubernetes, Terraform
Databases | PostgreSQL, MySQL, Oracle
Tools | Git, Maven, Gradle, JIRA, Confluence
Observability & Monitoring | Prometheus, Grafana, Xray ,AWS CloudWatch,
Others | RESTful APIs, Microservices, Agile Methodologies, Unit Testing (JUnit, Mockito)

Professional Experience

Roche | Santa Clara, California, United States

October 2018-Present

Principal Software Engineer

Drive end-to-end software development for the Remote Patient Monitoring program, employing advanced methodologies like FHIR and FML. Construct robust data pipelines to enhance data processing capabilities and ensure seamless data flow from patient health device like Blood Pressure Monitor to PostgreSQL DB . Implement innovative solutions in resource management and optimize database performance through SQL tuning and custom modifications.

- Enhance software architecture through adoption of Java, AWS, EKS , Kinesis and Python technologies, leading development of RPM application for Cardio Patients.
- Innovate database strategies by creating custom materialized views due to limitations of existing auto refresh functionalities in PostgreSQL.
- Lead an offshore team, communicated with diverse stakeholders, and successfully drove the completion of the RPM project, ensuring alignment, timely delivery, and high-quality outcomes.

- Developing End to End Data pipeline using AWS Api Gateway ,Python (AWS Lambda),Java MicroService and PostGres SQLDB

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Ellie Mae | Pleasanton, CA

January 2017 - March 2018

Senior Software Engineer

Enhanced CRM product functionality by developing and automating tasks using Java , TestNG within AWS environment. Executed SQL tuning to improve database efficiency for finance, ecommerce, mortgage, and healthcare domains. Designed and implemented a mortgage synchronization module using Java and AWS, improving system integration and efficiency.

- Led development of Synchronization using Java Spring Boot and AWS
- Performance Tuning that incurred using AppDynamics and Microsoft SQL Server

EBAY, San Jose, CA

March 2016 - January 2017

Senior Software Engineer

- Involved in the development of payment module (migration from SOAP to REST).using J2EE
- Automating the Order Comparison System between NoSQL and SQL Database using Java, TestNG

Calypso Technology, San Francisco, CA (currently bought by Nasdaq) **February 2002 - February 2016**

Senior Software Engineer

- Involved in Calypso redesign to make use of application base services like JBOSS.
- Played key role in redesigning the Trade loading process to handle 1M Trades without causing out of memory in Dataserver.
- Sybase / Oracle SQL development including performance tuning ,sql index monitoring .
- Designing/Developing module in Java using RMI Protocol