MAHESH JOSEPH SADASHIV

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EDUCATION

University of Southern California   Los Angeles, California
Master of Science in Computer Science   August 2023-May 2025

BMS COLLEGE OF ENGINEERING   Bengaluru, Karnataka
Bachelor of Engineering in Computer Science   September 2016-August 2020

EXPERIENCE

Sixt Rent a Car   Bengaluru, Karnataka
SOFTWARE DEVELOPMENT ENGINEER 2   April 2022-July 2023

- Synergized with product managers to generate $2 million in revenue by implementing a fee-imposing feature for non-compliant car returns using Go, Spring Boot, and Postgres
- Accomplished savings of $500,000 annually by reducing fraudulent transactions with a fuel card payment platform built with Java, Spring Boot, and Postgres
- Collaborated with cross-functional teams to generate vehicle condition reports and develop data pipelines using S3, Thymeleaf, and Kafka, enhancing remarketing team's efficiency by 30%
- Reduced annual expenses by $200,000 by replacing a third-party vendor with an in-house fleet tracking solution, leveraging a REST-based microservices architecture
- Mentored junior software interns by providing guidance on best practices, coding techniques, and problem-solving skills, resulting in 100% conversion to full-time employees

Sixt Rent a Car   Bengaluru, Karnataka
SOFTWARE DEVELOPMENT ENGINEER   August 2020-March 2022

- Drove the migration of on-premise monolithic applications to AWS cloud services, increasing uptime from 90% to 99.99% and enhancing scalability, earning an achievement award
- Automated diverse car rental business processes and decreased manual workload by 80 hours per week by engineering scalable applications using an event-driven architecture with Kafka and Postgres processing queues
- Cut down turnaround time for business processes by 99.8% by developing self-service portals to replace time-consuming ticketing systems
- Decreased number of open sessions, latency, and erroneous transactions by 92% by constructing a client-side load balancer to communicate with a legacy system using SOAP and Java
- Increased vehicle availability by 27% by developing a push notification system for mobile applications with Kafka and Firebase

Sixt Rent a Car   Bengaluru, Karnataka
SOFTWARE DEVELOPMENT INTERN   January 2020-April 2020

- Cut check-in time by 91% by integrating computer vision into a micro-service to accurately extract mileage data from vehicle dashboards using Flask, Python, and TensorFlow
- Reduced API development time by 41% by integrating Swagger for faster API code generation and documentation

ACADEMIC PROJECTS

COVER CRAFT v1.1   Los Angeles, California
Master's Student   May 2024-July 2024

- Engineered an automated cover letter generator using Selenium to scrape LinkedIn job details, leveraging generative AI to create tailored, editable cover letters
- Developed a full-stack solution with Flask and React, reducing the application process by 86% and serving a user base of 30 people

VIDEO SEARCH ENGINE   Los Angeles, California
Master's Student   March 2024-April 2024

- Optimized solution for searching and indexing video content, enabling users to find relevant videos and exact timestamps with an accuracy of 100%
- Leveraged FFTs and DCTs to extract perceptual quantifiers, converting data into vector embeddings and storing it in a vector database, boosting lookup speed by 72%

TECHNICAL SKILLS

Programming Languages: Java, Python, Go, C++, SQL, JavaScript
Frameworks and Libraries: Spring Boot, Go-Micro, Flask, OpenCV, OpenGL, React
Back-end Services and Platforms: AWS, Kubernetes, Kafka, Postgres, MongoDB, Elasticsearch, Redis, Docker