

MAHESH JOSEPH SADASHIV

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EDUCATION

University of Southern California	Los Angeles, California
Master of Science	August 2023-May 2025
BMS COLLEGE OF ENGINEERING	Bengaluru, Karnataka
Bachelor of Engineering	September 2016-August 2020

EXPERIENCE

Sixt Rent a Car	Bengaluru, Karnataka
SOFTWARE DEVELOPMENT ENGINEER 2	April 2022-July 2023
<ul style="list-style-type: none"><li>• 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</li><li>• Accomplished savings of \$500,000 annually by reducing fraudulent transactions with a fuel card payment platform built with Java, Spring Boot, and Postgres</li><li>• 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%</li><li>• 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</li><li>• Mentored junior software interns by providing guidance on best practices, coding techniques, and problem-solving skills, resulting in 100% conversion to full-time employees</li></ul>	
Sixt Rent a Car	Bengaluru, Karnataka
SOFTWARE DEVELOPMENT ENGINEER	August 2020-March 2022
<ul style="list-style-type: none"><li>• 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</li><li>• 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</li><li>• Cut down turnaround time for business processes by 99.8% by developing self-service portals to replace time-consuming ticketing systems</li><li>• 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</li><li>• Increased vehicle availability by 27% by developing a push notification system for mobile applications with Kafka and Firebase</li></ul>	
Sixt Rent a Car	Bengaluru, Karnataka
SOFTWARE DEVELOPMENT INTERN	January 2020-April 2020
<ul style="list-style-type: none"><li>• 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</li><li>• Reduced API development time by 41% by integrating Swagger for faster API code generation and documentation</li></ul>	

ACADEMIC PROJECTS

COVER CRAFT v1.1	Los Angeles, California
Master's Student	May 2024-July 2024
<ul style="list-style-type: none"><li>• Engineered an automated cover letter generator using Selenium to scrape LinkedIn job details, leveraging generative AI to create tailored, editable cover letters</li><li>• Developed a full-stack solution with Flask and React, reducing the application process by 86% and serving a user base of 30 people</li></ul>	
VIDEO SEARCH ENGINE	Los Angeles, California
Master's Student	March 2024-April 2024
<ul style="list-style-type: none"><li>• Optimized solution for searching and indexing video content, enabling users to find relevant videos and exact timestamps with an accuracy of 100%</li><li>• 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%</li></ul>	

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