

Mahesh Joseph Sadashiv

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

08/2023 - Present

Master of Science in Computer Science (3.75 on 4.0 GPA)

BMS COLLEGE OF ENGINEERING

09/2016 - 08/2020

Bachelor of Engineering in Computer Science (9.09 on 10 CGPA)

TECHNICAL SKILLS

Programming Languages: Java, Python, Go, C, CPP, SQL, Scala, HTML/CSS, JavaScript

Frameworks and Libraries: Spring Boot, Go-Micro, Flask, OpenCV, OpenGL, React

Back-end Services and Platforms: AWS, GCP, Firebase, Camunda, Kubernetes

Databases and CI/CD Tools: Postgres, MongoDB, Elasticsearch, Git, Docker, Jenkins, Open Specification.

EXPERIENCE

Software Developer Engineer 2

Sixt Rent a Car - Bengaluru, India

04/2022 - 07/2023

- Conceptualized, collaborated, and delivered a transaction management platform for fuel card payments saving company revenue by \$500,000 annually in fraudulent transactions.
- Developed a fleet tracking application to replace one from an external vendor to cut annual corporate expenses by \$200,000 and improve operational efficiency.
- Built data pipelines to process vehicle data and produce condition reports for dealerships to de-fleet and resell vehicles.
- Delivered a feature intended to impose fees on clients returning a car in a condition that isn't compliant with the rental agreement, resulting in a \$2 million boost in revenue for the business.

Software Development Engineer

Sixt Rent a Car - Bengaluru, India

08/2020 - 03/2022

- Engineered scalable applications utilizing event-driven architecture enabled by Kafka and Postgres processing queues, automating diverse car rental business processes; reduced manual workload by 80 hours per week.
- Improved operational efficiency by developing self-service portals replacing time-consuming ticketing systems, significantly reducing turnaround time for business processes by 99.8%.
- Constructed a client-side load balancer to communicate with a legacy system using SOAP, bringing down the number of open sessions, latency, and erroneous transactions by 92%, this adaptation was later adopted by other teams.
- Implemented a push notification system using Kafka and Firebase, boosting vehicle availability by 27%.

Software Development Intern

Sixt Rent a Car - Bengaluru, India

01/2020 - 04/2020

- Integrated Swagger for faster API code generation and documentation decreasing API development time by 41%.
- Implemented deep learning models and OpenCV to detect fuel levels with a car dashboard image. Integrated TensorFlow and OpenCV to extract mileage from dashboards shortening vehicle check-in time by 91%.

ACADEMIC PROJECTS

VIDEO SEARCH ENGINE

03/2024 - 04/2024

- A comprehensive solution for searching and indexing video content, enabling users to quickly find relevant videos and exact timestamps using a short query snippet.

CUSTOM RAY TRACER

12/2023 - 01/2024

- Ray tracer implemented from scratch in Python using NumPy and Matplotlib libraries to render a scene with spheres and different lighting conditions.

GIT USER DETAILS MANAGEMENT SYSTEM

12/2019 - 01/2020

- A pub-sub user details management system, featuring a command-line interface and two microservices for managing Git user details in a database.

SWARM-COPTER

09/2019 - 04/2020

- Published and implemented a system to control multiple drones using frameworks that house algorithms to schedule, detect collisions, and establish communication between drones.

HONORS AND LEADERSHIP

- Received the Rock Star Award, given by Sixt for building a future on a foundation for excellence. 07/2022
- One of 4 finalists out of 50 teams in e-Yantra (a national-level robotics competition) 03/2018
- MTA Security Fundamentals certification, demonstrated fundamentals in security knowledge and skills 06/2018
- Effectively facilitated SCRUM ceremonies increasing the team's productivity.
- Member of the *Drying Little Tears* organization aimed to provide children with education and healthcare aid worldwide.