MAHESH JOSEPH SADASHIV
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EDUCATION

University of Southern California (Master of Science in Computer Science) Current-May 2025
BMS College of Engineering (Bachelor of Engineering in Computer Science) August 2016-August 2020

TECHNICAL SKILLS

- Languages: Java, Python, Go, Scala, HTML/CSS, Javascript
- Libraries & Frameworks: Spring Boot, Go Micro, Flask, OpenCV, Firebase, REST, Prometheus, SQL, Grafana, Instana, React
- Platforms, Database & Tools: AWS, Postgres, MongoDB, ElasticSearch, Git, Docker, Jenkins, OpenSpec, Camunda, gRPC, Kibana, Hadoop

WORK EXPERIENCE

Software Developer Engineer 2 | Sixt Research & Development, Bengaluru April 2022-July 2023

- Assumed responsibility for the complete feature life cycle and its implementation. Managed and maintained twelve micro-services built on Spring Boot and Go-Micro, integrated Prometheus to capture system metrics, and utilized Grafana and Instana as visualization tools.
- Conceptualized, collaborated, and delivered a transaction management platform for fuel card payments saving company revenue by 500 thousand dollars annually.
- Developed multiple applications for fleet maintenance and management aimed at reducing vehicle turnaround time.
- Effectivity facilitated planning, retrospectives, stand-ups, and other scrum ceremonies increasing the team's productivity.
- Conceptualized and delivered a customer remittance application increasing the company's revenue by 2 million.

Software Development Engineer | Sixt Research & Development, Bengaluru August 2020-March 2022

- Engineered scalable applications utilizing event-driven architecture and Kafka/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, resulting in a significant reduction in turnaround time for business processes to milliseconds.
- Constructed a client-side load balancer to query data from a monolith, bringing down the number of sessions and handling erroneous transactions, later adopted by other teams as a library.
- Implemented a push notification system utilizing Kafka and Firebase to deliver critical and time-sensitive tasks to users, resulting in a notable 27% enhancement in vehicle availability.

Software Development Intern | Edizi Tools PVT LTD, Bengaluru May 2020-July 2020

- Delivered an MVP to automate quotation for products in Edizi by constructing a web application to house a Quotation Software built on React and Springboot hosted on GCP.
- Utilized machine learning algorithms to predict quotations on Edizi's products, reducing quotation time from hours to minutes, resulting in a 40% increase in customer conversion rate and a 15% improvement in customer satisfaction score.

Software Development Intern | Sixt Research & Development, Bengaluru January 2020-April 2020

- Integrated open specification for faster API code generation and documentation.
- 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 91.8%.

ACADEMIC PROJECTS

OCR Model (Artificial Intelligence) January 2019-April 2019
Made an OCR detect text using a supervised learning technique called K nearest neighbors, with an accuracy of 91.22%.

Secure Messaging (Mobile Application) January 2019-April 2019
Developed a real-time messaging application providing end-to-end encryption(AES). Firebase authentication and Firebase real-time database were integrated for storing and retrieving data.

Parallel processing to find SimRank August 2023- December 2023
Implemented simRank between an original and perturbed network graph to find the modified and deleted nodes by implementing a map-reduce function using Hadoop.

HONORS AND AWARDS

One of 4 finalists out of 50 teams in e-Yantra a national-level Robotics Competition (March 2018). 1st place in Prototype Development and 2nd place in Defuse conducted at a national-level annual tech symposium, Phase Shift (November 2017- 2018). Received the Rock Star Award, given by Sixt for building a future on a foundation for excellence (July 2022).

PUBLICATIONS

Implementation of Autonomous Transportation Using Drones December 2020

EXTRA-CURRICULAR ACTIVITIES

Led the tech blogging initiative at Sixt. Member of the Drying Little Tears organization aimed to provide education, healthcare, welfare, and emergency aid for children worldwide. Sustainable gardening enthusiast. Arduino and Raspberry Pi robotics enthusiast.