

SARAVANAN HARI BASKARAN

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EDUCATION

Columbia University

Master of Science in Data Science

New York, NY, USA

Expected Dec 2025

- Relevant courses: Database Management Systems, Java Programming, Software Engineering, Operating Systems

Vellore Institute of Technology (VIT University)

Bachelor of Technology in Computer Science and Engineering

Vellore, Tamil Nadu, India

May 2022

CGPA: 9.13/10.

TECHNICAL SKILLS & CERTIFICATIONS

Programming Languages & Frameworks: Python, Java, Go, C/C++, R, Django, Flask, Gin Framework, MATLAB, SAS

Web Development & Front-End Technologies: HTML, CSS3, JavaScript, ReactJS, AngularJS.

DevOps, Cloud, Databases & Other tools: GIT, MySQL, GraphQL, Jenkins, Kafka, Aerospike, Cassandra, Redis, Amazon Web Services (AWS), Firebase, MongoDB, BeautifulSoup, Linux, Figma.

Certifications: NASSCOM Certified Security Analyst (SSC/Q0901) (NSDCIndia), Java for Android (Coursera), Front End Web Development using React (Coursera).

WORK EXPERIENCE

MakeMyTrip India Private Limited

Software Engineer

Bengaluru, Karnataka, India

Jun 2022 - May 2024

- Spearheaded development of key features for a hotel management system, tackling challenges like fraud prevention, compliance, and customer experience. Took steps to discuss and refine solutions with stakeholders, while collaborating with project managers, front-end developers, and QA engineers to make sure alignment and project success.
- Led design and development of an auto GSTN validation system using Kafka and Redis for fallback mechanisms which managed packet transmission without exceeding rate limit of a third-party service and cut work hours by four person-days daily.
- Initiated and steered major code and architectural refactoring projects, achieving a 20% reduction in latency by augmenting system performance, security, and maintainability. Facilitated discussions and knowledge sharing among team members to maintain high standards.
- Developed and optimized RESTful and gRPC APIs, integrating with payment systems through Python, Java, Go, Django, Gin Framework, JUnit, MySQL, Cassandra, Aerospike, MongoDB, Kafka, AWS, Jenkins, Redis, GraphQL and JavaScript, ensuring seamless and scalable system operations.

MakeMyTrip India Private Limited

Software Engineer Intern

Bengaluru, Karnataka, India

Jan 2022 - May 2022

- Directed efforts with payment system backend team within hotel-supply ecosystem to advance key developments and ensure timely delivery. Took proactive steps to improve invoice OCR feature accuracy from 57% to 83.33%.
- Drove a cross-functional initiative to identify and address critical system vulnerabilities; collaborated with three team members to implement solutions, reducing critical bugs by 32 and increasing operational efficiency.

ACADEMIC PROJECTS

Scalable Data Processing and Real-Time Prediction Platform on AWS with Apache Spark

- Designed and implemented a distributed data pipeline with Apache Spark on AWS EMR, processing over 10 million NYC Taxi Trip Records 70% faster, enabling real-time analytics and driving data-informed decision-making.
- Developed and deployed scalable RESTful APIs using FastAPI, Docker, and Kubernetes (AWS EKS), integrating ML models with 93.8% accuracy and reducing response times by 60%. Enhanced user engagement with a React.js frontend, increasing user satisfaction scores by 35%.
- Implemented CI/CD automation with GitHub Actions and streamlined data triggers through AWS Lambda and CloudWatch, cutting deployment cycles by 50%. Strengthened platform performance with Prometheus and Grafana, improving system uptime by 30%, while implementing OAuth2 to secure API endpoints, ensuring safe and reliable interactions.

Pustak - A Django-Based Book Management and Engagement Platform

- Developed and deployed "Pustak," a Django-powered web application hosted on Heroku, designed for managing and exchanging books, quotes, and user interactions efficiently.
- Utilized technologies such as BeautifulSoup for web scraping to deliver daily and weekly quotes and book updates, Swagger for API documentation and testing, and integrated APIs for seamless interaction between the front-end and back-end.
- Implemented robust features including user authentication, admin dashboards, and system configurations, supported by AWS and Firebase for storage and backend operations, ensuring a scalable and user-friendly experience.

SpicyDen

- Developed SpicyDen, a restaurant application using AngularJS, utilizing Angular's code scaffolding for efficient component generation and seamless service management. Implemented testing workflows with Karma to ensure code reliability and maintainability throughout the development process.