



Sisira Jayanthi Sasikumar

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PROFILE

Enthusiastic **software engineer** with **5 years** of hands-on experience primarily focusing on backend development in **.NET, Nodejs, Python, and C#**, and supported by frontend skills in **React** and **Vue.js**. I am passionate about building robust, scalable applications and learning cutting-edge technologies. **Certified in Big Data, Hadoop, and Spark**, I thrive in structured, collaborative, and Agile-driven environments, leveraging strong analytical thinking and effective communication to deliver results. Fluent in English (C2), I am a **full-stack developer** with a **B.Tech degree in Computer Science**, and I am actively seeking exciting job opportunities to enhance my skills further and contribute to innovative projects.

SKILLS

Language

C#, Python, JavaScript, MS SQL, MySQL

Software skills

.NET, React, Nodejs, GitHub, GitLab CI/CD, Postman, Kafka, Jenkins, Jira, Kubernetes, Azure, Docker, automation

Certifications

RESTful Web API - The Complete Guide(.NET 7 API), Complete Guide to Unit Testing in .NET Core (NUnit & XUnit), Big Data Hadoop And Spark Developer

Knowledge

Data Analytics, API Integration, Object-Oriented Programming, Data Engineering, Python coding, Software Development, Data Science, Machine Learning, Computing Large Scale Data

Libraries and Frameworks

xUnit, NUnit, Pandas, Numpy, OpenCV, Matplotlib,

Tools

SSMS, Tableau, Entity Framework Core, MS Office, Markdown Language, Word, Excel, PowerPoint, Visual Studio, Visual Studio Code, PyCharm

Soft skills

Team Member, Enthusiasm, Supportability, Teamwork, Initiative, Problem-solving, Creative Thinking, Ambitious, Logical Thinking

Operating System

MacOS, Windows, Linux(Ubuntu)

Database

MS SQL, MySQL, PostgreSQL, MongoDB

PROFESSIONAL EXPERIENCE

Full Stack Developer

SERGO GmbH

09/2025

Hamburg, Germany

- Developing a customer service application using React for the frontend and .NET Core for the backend.
- Designing and implementing user interfaces with responsive layouts and smooth user interactions.
- Integrating frontend components with RESTful APIs for seamless data flow and functionality.
- Building and maintaining backend services, ensuring performance, scalability, and reliability.
- Migrating the application database from MongoDB to PostgreSQL to improve data consistency and performance.
- Implementing Azure Microsoft SSO and Keycloak for secure authentication, alongside SentinelOne for endpoint security and threat detection.

- Working with JetBrains WebStorm and Rider for efficient development and debugging.
- Conducting unit testing with xUnit to validate functionality and ensure code quality.
- Dockerizing projects for consistent deployment, scalability, and environment portability.
- Collaborating in an Agile environment, contributing to feature design, testing, and deployment.

Software Engineer

Edstem Technologies

03/2021 – 01/2025

Kochi, India

Backend Developer – VERICAST

- Developed scalable backend systems using ASP.NET Core, MS SQL, and Angular for financial and marketing applications.
- Independently led the architecture and development of a Simulator App for financial institutions.
- Engineered high-performance APIs and optimized legacy systems, improving efficiency and reducing overhead.
- Maintained comprehensive API documentation, code specifications, and client-focused deliverables.
- Collaborated with teams to create clean, testable code and presented updates to stakeholders.

Full Stack Developer – RECSPERTS

- Designed and implemented REST APIs and React-based UIs for an online/offline class management platform using NodeJS, React and PostgreSQL.
- Integrated third-party services and AWS features (Cognito, S3) for security and scalability.

Full Stack Developer – WAREHOWZ

- Built a secure, role-based web app for warehouse space management using .NET Core and MongoDB.
- Developed robust authentication systems and ensured data integrity through rigorous unit testing.

Quality Control Intern

Expetrons

09/2020 – 12/2020

Mumbai, India

- Performed end-to-end quality control across video content, user profiles, and in-app experiences to ensure brand consistency and a smooth user journey.
- Edited and optimized video content for marketing campaigns, supporting higher engagement across social and digital channels.
- Conducted manual testing of the application (functional, UI, and basic usability checks), documenting defects and coordinating with the team for timely fixes.
- Reviewed and verified user profiles for accuracy and policy compliance, maintaining a clean and trustworthy platform environment.
- Updated and maintained databases with verified user and content information, improving data accuracy and supporting reliable reporting

EDUCATION

Bachelor of Technology in Computer Science

M E S College Of Engineering

08/2016 – 08/2020

Kerala, India

PROJECTS

Football Trajectory Analysis

- Utilized advanced Python libraries, including **pandas**, **GeoPandas**, and **Fiona**, to load and preprocess large spatiotemporal soccer datasets for in-depth performance evaluation.
- Leveraged **Numpy** for numerical operations and applied **DBSCAN** clustering from **scikit-learn** to identify movement patterns and tactical groupings on the field.
- Developed custom analyses and visualizations using **Matplotlib**, enabling clear interpretation of player trajectories and heatmaps to assess team strategy.
- Employed **Shapely** for precise geometric operations, handling spatial coordinates from **WKB** and Point data, and integrated data from diverse formats for robust exploration.
- This workflow enabled granular visualization and meaningful insights into soccer performance and tactics, supporting both quantitative and qualitative assessments of player and team behavior.

Retrieval-Augmented Generation (RAG) System Project

- Developed a full **RAG** pipeline using **Python**, leveraging the **Ollama** interface to perform local **Large Language Model** (LLM) inference.
- The system encompassed all core components: efficient document chunking, **embedding generation** for semantic search, **retrieval** of relevant information based on user queries, and context-aware generation of responses.
- Implemented robust processing logic to split and organize documents, constructed a **Cosine Similarity** for quick similarity search, and integrated retrieval results with the Ollama LLM for high-quality, contextually accurate output, all within a local, privacy-preserving deployment.

Project - Market Analysis in Banking Domain

- Created a **Spark** data frame and calculated the market success and failure rate
- Calculated the maximum, mean, and minimum age of the average targeted customer, and calculated the quality of customers by checking the average balance and median balance of customers.
- Found out whether age and marital status together mattered for a subscription to the deposit scheme.
- Did feature engineering for the bank and found the right age effect on the campaign.

Home Security Automation Smart Intruder detection System

- A security system that identifies unauthorized human presence and notifies the user.
- Technologies: **Python**, **Google Colab**, **Object Detection Algorithm**

ACHEIVEMENTS

Secretary of Computer Science Department Association

01/2020 – 12/2020

M E S College of engineering

Secretary of WIE (IEEE)

08/2019 – 08/2020

M E S College of Engineering