

Sai Srinath Devarapalli

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Portfolio

Summary

Full-Stack-focused Software Engineer with experience building scalable enterprise applications using ASP.NET Core Web API, MongoDB, and React.js. Skilled in RESTful API design and full-stack application architecture. Currently contributing to enterprise accounting software and CRM systems at Capsitech.

Technical Skills

Languages: C, C#, Java, Python, JavaScript, TypeScript

Frontend: React.js, HTML, CSS

Backend: ASP.NET Core Web API, Django, REST APIs, Redis

Databases: MongoDB, MySQL

Tools & Practices: Git, GitHub, Agile/Scrum, API Integration

Experience

Capsitech IT Services

Jan 2025 – Present

Assistant System Engineer

Jodhpur, Rajasthan

- Working on modules for **Acting Office**, a UK-based accounting and CRM platform, using ASP.NET Core Web API and ReactJs.
- Delivered dashboard APIs using MongoDB aggregation pipelines to display billing and operational data in real time.
- Contributed to API development, database integration, testing, and feature enhancements across 3+ accounting and CRM modules.
- Collaborated with frontend and QA teams during Agile sprints to deliver stable and production-ready features.

Projects

Inspectra - AI-Assisted Code Review Platform | *ASP.NET Core, React.js, MongoDB, FastAPI*

2026

- Engineered an AI-powered debugging platform using ASP.NET Core REST APIs, FastAPI microservices, MongoDB Atlas, JWT authentication, and Docker-based multi-language code execution.
- Integrated OpenAI GPT-4o-mini and ChromaDB for code analysis, bug detection, severity scoring, and AI-generated fix suggestions with diff previews.
- Implemented a Monaco Editor-based React IDE with real-time terminal output, multi-file editing, and auto-save capabilities.
- Designed project management, execution history tracking, bug analytics, and quality monitoring dashboards.

Team Project Management System | *ASP.NET Core, React.js, JWT, MongoDB*

2025

- Architected a full-stack project management application using ASP.NET Core, React.js, MongoDB, and layered Repository-Service-Controller architecture.
- Implemented JWT authentication, RBAC, and authorization middleware for secure user and admin workflows.
- Designed REST APIs for project, task, and user management using MongoDB, async programming, and RESTful design principles.
- Developed React dashboards with protected routes, Context API, Tailwind CSS, filtering, sorting, and secure API integration.

Plant Disease Detection & Treatment Suggestion System | *Python, TensorFlow, CNN, Deep Learning*

2025

- Built a plant disease detection system using 5 CNN models for Corn, Cotton, Grape, Potato, and Tomato classification.
- Implemented TensorFlow, Keras, OpenCV, and Flask-based prediction pipelines for disease diagnosis from uploaded leaf images.
- Integrated a JSON-based treatment recommendation engine providing disease-specific prevention and treatment guidance.
- Designed a responsive web interface using HTML, CSS, Bootstrap, and JavaScript for image upload and diagnosis visualization.

Little Lemon Restaurant App | *Django, Python, HTML, CSS*

2024

- Created a Django-based restaurant management application with dynamic menus, reservations, and SQLite-backed data management.
- Designed Menu and Booking models using Django ORM with form validation and customer reservation workflows.
- Implemented reservation handling using ModelForms to capture and manage customer booking information.
- Created responsive pages for menus, bookings, and restaurant information using Django templates and URL routing.

Education

NRI Institute of Technology

May 2025

B.Tech in Computer Science

CGPA: 8.5 / 10

Sri Chaitanya Junior College

May 2021

Intermediate (Class 12)

95.4%

Certifications & Achievements

- Meta Django Web Framework Certification – Coursera
- Certifications in Git, GitHub, Java, Python, and Generative AI Fundamentals
- Solved 100+ coding problems on LeetCode and earned the 100 Days Badge

Additional Interests

Upskilling in Emerging Technologies, Creative Writing, Editing, Online Learning