Sanjay V

■ sanjayvenkat0348@gmail.com | ■ 8838487815 | ♠ github.com/sanjay0348 | ் linkedin.com/in/sanjayvenkat0348 | Innovative software developer with expertise in modern web development. Specialized in optimizing workflow processes, creating scalable applications, cloud solutions and AWS services

Skills

Languages: JavaScript, TypeScript, NoSQL, Python

Technologies & Tools: ReactJS, NodeJs, AWS, EC2, S3, Lambda, Docker, Angular

Work Experience

Sify Technologies, Chennai

Jul 2023 - Present

Software Developer

- Optimized backend processing by implementing AWS Step Functions, decoupling long-running workflows and significantly reducing peak server load during heavy operations.
- Reduced system strain and improved reliability by offloading complex processes to orchestrated Step Functions, leading to a smoother user experience during high-load events.
- Enhanced scalability and operational efficiency by modularizing heavy backend tasks with Step Functions, resulting in more efficient resource usage and reduced infrastructure overhead.
- AWS, EC2, S3, MongoDB, Docker

Education

Velammal Engineering College Chennai

Aug 2019 - Apr 2023

B.TECH. in Information Technology

CGPA: 8.99/10

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

Project Work

Text-to-Video Pipeline

2025

- Developed an automated pipeline that converts user text prompts into coherent short-form videos using AI and multimedia tools. Implemented LLM-based workflow to transform user prompts into structured storyboards. Integrated Edge-TTS for high-quality audio generation from text. Created a video search engine accessing multiple sources (Pexel, Pixabay, custom library). Built an LLM-powered relevancy checking system to ensure video-prompt coherence. Engineered video assembly process with animations and text overlay capabilities
- Technologies: Large Language Models(LLM), Edge-TTS, FFmpeg, Pexels/Pixabay APIs, Custom Video Library

Intelligent Content Creation System

2024

- Designed and implemented a React-based CCS with an intelligent tagging system that automatically categorizes content using LLMs. Built a responsive UI with intuitive workflows for creating multimedia-rich lessons using images and YouTube videos.
- Integrated a user input flow where an LLM generates a course structure and detailed content for each lesson. Enhanced content generation with LLM calls, selecting relevant images via image libraries, and retrieving YouTube videos using SERP API/Selenium. Merged textual and visual content by feeding image and video context back into the LLMs to refine and better align the generated material.
- Technologies: React, Node.js, MongoDB, LLM, AWS S3, Selenium, SERP API

Electronic Project Management System (EPMS)

2023

- Developed a full-featured project management platform for handling end-to-end project operations including creation, approval workflows, resource allocation, and reporting. Implemented multi-level approval flows for project creation involving Project Managers and Finance teams, with detailed status tracking and role-based access control. Built modules for timesheet tracking, revenue reporting, task assignment, and employee utilization, with features like Algenerated timesheet summaries and defaulter identification. Designed interactive dashboards and admin panels enabling seamless navigation for PMs, employees, and finance personnel. Integrated invoice generation, holiday tracking, exchange rate management, and LLM-powered automation to support operational efficiency.
- Technologies: React , Node.js, MySQL, AWS, REST APIs

Certificates

AWS Certified Developer – Associate