SRIMADHAVAN G

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B.Tech, Computer Science and Engineering – Cloud Computing
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Summary

Computer Science Student with experience building backend services and data pipelines. Has built end-to-end systems for traffic control, document processing, and data validation, with practical exposure to AI-assisted workflows.

Experience

SIFY Technologies Ltd. | Drive   Jun 2025 - Jul 2025
AI intern · Intern · Full-time   Chennai, IN

- Curated and cleaned image datasets sourced from different sources, performing preprocessing and annotation validation to improve training quality.
- Trained and evaluated object detection models, analyzing performance metrics and reducing false positives through data and threshold tuning.
- Gained exposure to model experimentation workflows, containerized environments, and practical limitations of CV systems.

Projects

Rate Limiting Sidecar | Github   Sep 2025 - Dec 2025
· Golang, Docker   Software Engineering

- Developed a high-performance sidecar proxy in Go, designed to protect microservices from traffic spikes using the Generic Cell Rate Algorithm (GCRA).
- Optimized performance with lock-free CAS (Compare-And-Swap) loops, achieving sub-millisecond overhead and reducing CPU contention
- Deployed as a containerized Docker sidecar service with connection pooling to reduce TCP latency and manage request lifecycles.

Automated Claims Processing Pipeline   Jul 2025 - Sep 2025
· AWS Textract, Lambda, S3, DynamoDB, SNS   Data Engineering

- Built a fully automated, serverless data pipeline to ingest and process 10000+ of scanned receipts daily, converting unstructured inputs into structured SQL records.
- Implemented policy validation, spend-limit checks, and real-time alerts to flag overspending and compliance violations.
- Added logging and monitoring via CloudWatch, ensuring reliable scaling and observability under peak load.

GenAI Document QA System | Github
· NLP, Generative AI (RAG), Computer Vision.   RAG, LLMs

- Built an automated pipeline to extract and organize data from large documents (200MB+), reducing manual research and data entry effort.
- Improved response times to under 15 seconds by using efficient chunking and asynchronous processing in FastAPI.
- Used Gemini 1.5 Flash to generate context-aware responses, focusing on accuracy and usability for research workflows.

Skills

Languages and Frameworks: FastAPI, Flask, Express.js, Node.js
Programming Languages: JavaScript, TypeScript, Python, C++, Go(Golang)
Tools and Technologies: MongoDB, Docker, GitHub, PostgreSQL, Redis, AWS, Azure, OCI
Areas of Interest: Computer Vision

Education

SRM IST-Kattankulathur   2027
B.Tech · Computer Science and Engineering - Cloud Computing   CGPA - 9.07/10

Certifications

Microsoft Certified: Azure AI Engineer Associate | Microsoft
Microsoft · B0951D3494187251

Jul 2025 - Jul 2026

AWS Academy Graduate - Data Engineering | Credly
Amazon · 2f7bf2ee-5894-49fb-97c5-703e97afb8cc

Sep 2025

Oracle Cloud Infrastructure 2025 Data Science Professional | Oracle
Oracle · 323474067OCI25DSOC

Oct 2025

Oracle Cloud Infrastructure Certified Generative AI Professional | Oracle
Oracle · 101495331OCI25GAIOCP

Sep 2025

Competitions

Hack-n-droid - Hackathon
Semi-Finalist

Feb 2025

- Led a team of four to build an AI-powered legal document analysis system for outcome prediction using NLP techniques.
- Designed and implemented end-to-end ML pipelines, including entity recognition, semantic similarity, and text classification.
- Focused on data preprocessing, model integration, and system reliability under time constraints.

Project Showdown
Winners · NWC Faculty

- Secured first place for developing a scalable OCR-based document processing system on AWS.
- Automated text extraction and structured data generation, reducing manual processing through a cloud-native workflow.
- Recognized for execution and delivery quality.

Codefest'24 - Hackathon | Link
Semi-Finalists · SRM Tech

Sep 2024

- Designed and built a full-stack CRM system from scratch, advancing to the semi-finals among 50+ teams.
- Led backend development using Node.js and MySQL, implementing authentication, workflow orchestration, and efficient data handling.
- Praised by judges for clean architecture, scalability, and robustness.

Links

LinkedIn, GitHub, LeetCode, Codewars