JAGADEESH D

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Professional Summary

Software Engineer specializing in backend development and REST API design with Python, FastAPI, and Django. Skilled in building scalable application, optimizing databases, and deploying solutions on Azure serverless platform such as Function Apps and App Services. Experienced in containerization with Docker, authentication (JWT/OAuth), and deliver secure, high-performance systems.

Skills

Programming: Python, Javascript
Frameworks / Librariers: FastAPI, Django, Flask, Tensorflow, Keras, Pytorch, Pandas, Numpy
Databases: MySQL, MS SQL
DevOps / Tools: Git, Docker, Postman
Testing & Automation: Pytest, Selenium
Cloud (Azure): Function App, App Service, Blob Storage, Azure SQL, Virtual Machine

Experience

Software Engineer - Adhiran Infotech
Chennai | *11 2024 – present*
- Designed and maintained REST APIs with Flask, FastAPI and Django, improving scalability and reducing downtime by 25%.
- Improved database performance by optimizing SQL queries and schemas, resulting in 30% faster database performance.
- Integrated third-party LLM APIs with prompt engineering to automate workflows and deliver intelligent responses.
- Worked with Azure services including Function Apps (HTTP triggers), Blob Storage, and Azure SQL, along with automation tools like Make, n8n.
- Implemented JWT/OAuth authentication, containerized applications using Docker, and collaborated via Git to debug issues and improve system quality.

Projects

HRMS System | *Nov 2024 – Mar 2025*
- Built payroll, attendance, leave management, and reporting modules using Flask, Celery, Redis, and MySQL.
- Automated HR workflows, reducing manual HR tasks by 60%.
- Integrated LLM-based assistant for document generation and query responses, improving employee support efficiency.

Finance Application | *Apr 2025 – Aug 2025*
- Developed finance app with FastAPI and MySQL, integrating third-party APIs for real-time market data.
- Implemented predictive analytics using Gemini 1.5 Flash, achieving 85% accuracy in forecasts.
- Automated financial summaries and insights, reducing reporting time by 50%.

OCR and Document Processing System (Academic project)
- rained OCR model on 10,000+ images using TensorFlow, Keras, and OpenCV.
- Integrated model into Django backend for real-time text detection and recognition.
- Enhanced accuracy with LLM-based post-processing, improving text formatting and reducing errors by 20%.

Education

Master of science in data science and business analytics | *Jun 2022 - May 2024*
Vels institute of science technology & advanced studies, Chennai
Bachelor of computer application | *Jun 2019 – Jun 2022*
S.I.V.E.T College, Chennai