



ASWIN SHAJI

Full Stack Developer

Versatile and detail-oriented Full Stack Developer with hands-on experience in developing responsive web applications using front-end and back-end technologies. Proficient in JavaScript, React, Node.js, Express, and MongoDB, with strong understanding of RESTful APIs, database design, and version control systems like Git. Skilled in troubleshooting, debugging, and optimizing code for performance and scalability. Committed to delivering high-quality, maintainable solutions that align with user needs and business goals.

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India Kerala

SKILLS

Programming Languages
Python JS

Back-End Technologies:
Python, AI ML, Lang chain
Lang graph, FastAPI, Flask
Django

IDE: Visual Studio
Code PyCharm

Version Control:
Gitlab GitHub

Front-End Technologies:
Angular React

Database Management:
MySQL, PostgreSQL, NOSQL

Cloud Tool Kits:
Microsoft Azure, GCP, N8N,
Docker

EDUCATION

B-Tech Computer science
College of Engineering Cherthala
Pallipuram Alappuzha, India

Higher secondary
Board of Higher Secondary
Examination, Kerala, India

High School
Board of Public Examination, Kerala,
India

WORK EXPERIENCE

PYTHON AI DEVELOPER

Speridian Technologies

09/2022 –Present

Kerala, India

- AI & Machine Learning Engineer with nearly 3+ years of experience in building AI-powered full-stack applications using Python, Django, Angular, and React.
- Designed and implemented an end-to-end automated testing tool leveraging Generative AI and Python, enhancing testing accuracy and productivity.
- Led the creation of a document digitization and extraction pipeline, integrating LLMs for accurate data extraction, classification, and content analysis.
- Developed a process management system for the banking sector using Django and Angular, improving workflow efficiency and operational traceability.
- Proficient in Machine Learning frameworks such as Scikit-learn and PyTorch, with hands-on experience in Generative AI model integration.
- Skilled in RESTful API development, microservices, and front-end integration for seamless end-to-end application performance.
- Experienced in Docker-based deployment and cloud platforms like Azure and GCP, utilizing Azure OpenAI, Cognitive Services, and Vertex AI.
- Strong communicator and collaborator, capable of translating complex AI solutions into practical, business-focused implementations

PROJECTS

AI Data Extractor – Government Process Digitization Project

Role: AI Developer

- Developed an intelligent document extraction pipeline using Azure Document Intelligence and LLM-based prompt engineering.
- Built REST APIs with FastAPI to expose document processing services.
- Automated end-to-end workflows using n8n and Node-RED.
- Designed PostgreSQL schema for structured data storage with high reliability and retrieval efficiency.
- Optimized prompt logic to support variable document templates and layouts, reducing manual post-processing

Voice-Bot – AI-Powered Voice Interaction Bot

SOFTWARE PROFICIENCY

- MS Word
- MS Excel
- MS PowerPoint

LANGUAGES

- English
- Malayalam
- Hindi
- Tamil

PASSPORT DETAILS

Passport No : W3875810
Date of Issue : 26.08.2022
Date Of expiry : 25.08.2032
Place of Issue : COCHIN

PERSONAL DETAILS

Nationality : Indian
Gender : Male
Date of Birth : 19/10/1999
Marital Status : No

HOBBIES

- Music
- Travelling
- Sports

Role: AI Developer

- An AI-driven call bot designed to interact with users through dynamic audio responses.
- Integrated OpenAI models for natural language understanding and response generation.
- Used Hugging Face embedding models to generate vector representations and
- Chroma DB for efficient embedding storage and retrieval.

Agentic AI for Loan Processing

Role: Full stack AI Developer

- Developed an AI-powered document extraction system using GPT-4o, RAG, Lang Graph and Lang chain for intelligent data analysis also use Angular for UI
- Built FastAPI-based orchestration APIs to manage document uploads, extraction workflows, and agent coordination.
- Designed and fine-tuned prompts and multi-agent workflows to improve accuracy in extracting structured data from PDFs, DOCs, and W2 forms.
- Implemented custom parsers and pre-processing logic to handle diverse document formats efficiently.
- Integrated PostgreSQL for structured storage of extracted data with scalable and optimized database design

QA-Copilot – Automated Test Case Generation Tool

Role: AI Developer

- A test automation system that generates test cases and scripts based on user stories.
- Built an AI-based test case and script generator using GPT-4o to automate QA testing workflows.
- Integrated LLM-powered logic into web apps using REST APIs for real-time test generation.
- Created an interactive dashboard with API support for QA metrics and test results.
- Designed and maintained a scalable NoSQL schema in MongoDB for test data.
- Engineered and tuned prompts to generate accurate and relevant test cases across varied software scenarios

AI Trade Mark and Notary

Role: Full stack AI Developer

- Implemented a semantic search system enabling retrieval based on both trademark name and image similarity using Chroma DB and GCP embedding models.
- Designed and deployed a vector-based search pipeline to generate and compare embeddings for multimodal data (text and images).
- Integrated a GCP AI model to automatically verify whether uploaded documents are notary certified, enhancing document authenticity checks.
- Developed a responsive Angular-based UI for seamless interaction with the backend search and verification APIs.

AI Search

Role: AI Developer

- Integrated Azure ai service and blob storage for key word search in the document.
- Integrated the RestAPI's with n8n and created a workflow.
- Created workflows for uploading document and searching in the indexer