

YOGESHWARAN C

Full Stack Developer

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PROFESSIONAL SUMMARY

Full Stack Developer with nearly 4 years of experience building scalable web applications, AI-powered automation systems, and enterprise SaaS platforms. Proficient in Python, TypeScript, Angular, NestJS, and FastAPI with hands-on expertise in cloud services (AWS, Azure), real-time systems, and LLM-driven document processing. Proven ability to architect end-to-end solutions from database design to production deployment, integrating payment gateways, messaging services, and AI/ML pipelines.

TECHNICAL SKILLS

Languages	Python, TypeScript, JavaScript, SQL, HTML5, CSS3/SCSS
Frontend	Angular (17/19), React, Vue.js, RxJS, NgRx, PrimeNG, Angular Material, Bootstrap
Backend	NestJS, Node.js, FastAPI, Flask, Express.js
Databases	PostgreSQL, MySQL, Redis
Cloud & DevOps	AWS (EC2, S3, SNS, SQS), Azure (AI Search, OpenAI, Storage, Functions), Docker, Nginx
AI / ML	OpenAI GPT, Google Gemini, DSPy, Tesseract OCR, Vector Embeddings, Semantic Search
Queues & Realtime	Celery, Bull/BullMQ, Redis Queue, WebSockets, Socket.IO
Integrations	Razorpay, Stripe, Twilio, MSG91, Firebase
Tools	Git, Azure DevOps, Swagger/OpenAPI, TypeORM, Pydantic

PROFESSIONAL EXPERIENCE

Full Stack Developer Oct 2022 – Present
Finstein Chennai, Tamil Nadu, India

Document Intelligence & Workflow Automation Platform

- Architected a full-stack document processing platform automating data extraction from invoices, claims, and contracts using AI/LLM models, significantly reducing manual data entry
- Built NestJS backend with modular monolith architecture (20+ modules) including workflow engine, form builder, connector framework, and usage-based billing system
- Developed FastAPI microservices for AI-powered extraction using OpenAI GPT and Google Gemini, with DSPy-based automatic prompt optimization
- Designed configurable workflow engine with approval gates, data transformations, webhook triggers, and payment nodes for end-to-end business process automation
- Implemented real-time updates via Socket.IO and async job processing with Bull/BullMQ and Redis for non-blocking document pipelines
- Built pluggable connector SDK for Gmail, Outlook, AWS S3, and webhook integrations enabling multi-channel document ingestion
- Integrated Razorpay payments with usage-based metering; led database design with ER diagrams and PostgreSQL schemas (TypeORM) for multi-tenant isolation
- Containerized application with Docker; managed AWS EC2 deployments with Nginx via custom shell scripts

Insurance Market Recommendation System

- Built conversational AI system for insurance market discovery through natural language queries with real-time SSE streaming responses
- Implemented semantic search across multiple market indices using Azure AI Search with vector embeddings (text-embedding-ada-002)
- Developed dynamic filter extraction from natural language using Pydantic-based structured LLM output parsing with conflict resolution
- Built geospatial data pipelines using GeoPandas, Shapely, and PyGeoHash for location-based market analysis and risk assessment
- Created Azure Durable Functions for automated daily data ingestion: MySQL fetch, CSV flattening, batch embedding, and search indexing
- Implemented sentiment analysis for recommendation quality tracking; built Angular 19 frontend with dashboard and chat interface

Additional Contributions

- Developed AI-powered chatbot for a fitness application and an appointment scheduling system for a healthcare platform
- Integrated Twilio and MSG91 for SMS/messaging services and Firebase for push notifications across multiple products

OPEN SOURCE CONTRIBUTIONS

- Contributed to major open-source projects including **VS Code**, **Angular**, **Angular Material**, and **Supabase** on GitHub

EDUCATION

Bachelor of Engineering in Information Technology

2018 – 2022

University College of Engineering, Villupuram

CERTIFICATIONS

Python Workshop Certification • Python Certification

LANGUAGES

English (Professional) • Tamil (Native) • Hindi (Elementary)