

ANDREA RAGALZI

PYTHON BACKEND ENGINEER

REST APIs | Integrations | RAG

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PROFESSIONAL SUMMARY

Five years of experience across industrial automation and enterprise insurance software, focused on REST APIs, integrations, testing and maintainable backend services. Currently developing Document Intelligent Hub, a RAG application built with FastAPI and vector retrieval for private document search and source-grounded answers. Based in Málaga and seeking a remote role across Europe or a hybrid position locally.

CURRENT PROJECT

DOCUMENT INTELLIGENT HUB – RAG

2025 – Present

Personal project – [GitHub repository](#)

- Built a full-stack RAG application to upload, process and query documents with source-grounded answers.
- Implemented the FastAPI backend pipeline for document ingestion, vector retrieval, conversational context and answer generation using ChromaDB and LangChain.
- Developed the Next.js frontend with Firebase authentication and user-scoped access to documents and conversations.

PROFESSIONAL EXPERIENCE

BACKEND DEVELOPER – Insurance Software

Oct 2023 – Feb 2025

HRM – Remote

- Developed an enterprise insurance claim automation system using Python, AWS Lambda and hexagonal architecture.
- Implemented business logic, system integrations and unit tests with Pydantic and pytest, contributing to AWS infrastructure and automated deployment workflows.
- Maintained a legacy Spring Boot application used internally by a major insurance company, resolving tickets, fixing defects and extending JUnit tests within an international enterprise environment.

SOFTWARE DEVELOPER – Industrial Automation

Sep 2019 – Nov 2022

Gefit S.p.A. – Alessandria, Italy

- Served as the main IT-oriented software developer within a PLC engineering department, building Python applications and integrations for industrial machinery.
- Developed reusable Python and Flask tools deployed on industrial PCs and Raspberry Pi devices, including an S7 integration layer, automated data logging and configuration-driven workflows adaptable across similar projects.
- Contributed to a YOLOv5-based industrial drum recognition system, focusing on software infrastructure, data flow and integration.
- Maintained legacy software, introduced GitHub-based version control practices and provided on-site technical support in Italy and the United States.

TECHNICAL SKILLS

Backend: Python, FastAPI, Flask, REST APIs, Pydantic, AWS Lambda, Java, Spring Boot

Data and RAG: SQL, PostgreSQL, MongoDB, ChromaDB, LangChain, retrieval pipelines

Testing and tools: pytest, JUnit, Git, Docker, Linux, Bash

Frontend and services: Next.js, React, TypeScript, HTML, CSS, Tailwind CSS, Firebase

EDUCATION

Full Stack Web Developer Bootcamp

Jan 2023 – Jul 2023

Epicode Italia – Remote

Computer Science Coursework

2015 – 2021

Università del Piemonte Orientale

Diploma in Electronics and Electrical Engineering

2015

IIS Ciampini-Boccardo – Novi Ligure, Italy

LANGUAGES

Italian: Native | **English:** B2 – Working proficiency | **Spanish:** B2 – Daily conversational use