

Jorge González Conde

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Professional Summary

Innovative **Agentic AI Developer** with 3+ years of Python development experience specializing in building production-ready multi-agent AI systems. Expert in **LangChain**, **RAG architectures**, and **vector databases** with proven track record of designing sophisticated agentic workflows that orchestrate multiple AI capabilities. Demonstrated success deploying AI systems with Docker containerization and implementing observability solutions for AI agent performance tracking. Strong background in **prompt engineering**, **context memory management**, and integrating LLM APIs (OpenAI, Anthropic Claude) into production applications. Passionate about pushing the boundaries of agentic AI technology and eager to contribute to innovation-focused teams building next-generation intelligent systems.

Work Experience

Freelance Full Stack Python/AI Developer | Remote

September 2022 – Present

Agentic AI & Multi-Agent Systems Development

- Architected and deployed **multi-agent AI research system** using Python and FastAPI that autonomously conducts research, orchestrates specialized agents (planning, research, writer, editor), and provides real-time progress tracking with PostgreSQL state management
- Built **interactive AI agent demonstration platform** (miagentuca.es) showcasing production-ready agentic capabilities including document classification, universal purchase agents, and meta-learning systems
- Designed **3-layer architecture pattern** for AI agents separating directives (SOPs), orchestration logic, and tools/APIs, ensuring maximum reliability and maintainability
- Implemented **agentic document extraction workflows** progressing from traditional OCR to advanced RAG pipelines with semantic search capabilities
- Developed **RAG chatbot system** using ChromaDB vector database and Anthropic's Claude for context-aware question answering about course materials
- Created sophisticated **prompt engineering** solutions and **context memory management** systems for both short-term and long-term agent interactions
- Integrated **OpenAI API** and **Anthropic Claude API** with custom REST endpoints for AI-powered assistants with automated workflow capabilities
- **Technologies:** Python, FastAPI, LangChain, Docker, PostgreSQL, ChromaDB, Vector Databases, RAG, Multi-Agent Systems, OpenAI API, Anthropic Claude API

Production Deployment & MLOps

- Containerized AI applications using **Docker** for simplified deployment and scalability
- Implemented observability and monitoring solutions for tracking AI agent performance and task state
- Deployed cloud-based applications on platforms including Fly.io and AWS (S3, Lambda)
- Built CI/CD pipelines for AI/ML system deployment ensuring reliable production releases

GitHub Projects:

- [research-agentic-ai](#) - Multi-agent research system with FastAPI, PostgreSQL, Docker
- [miagentuca-demos](#) - Interactive AI agent demos with production architecture
- [agent_skills_with_anthropic](#) - Agent skills development with Anthropic integration
- [starting-ragchatbot-codebase](#) - RAG system with ChromaDB and semantic search

Full Stack Web Developer | The Ticket Merchant | Remote

October 2023 – September 2024

- Developed internal web application using **Next.js** and **Node.js** backend with SQL Server database integration
- Implemented REST APIs and collaborated with cross-functional teams to design and deliver new features
- Conducted rigorous code reviews ensuring quality standards and software architecture best practices
- Technologies: Next.js, Node.js, SQL Server, Material UI, TypeScript

Technical Mentor (Volunteer) | Microverse | Remote

November 2022 – Present

- Mentored 5+ junior developers on software architecture, code quality improvement, and complex full-stack project implementation
- Provided technical guidance through comprehensive code reviews focusing on best practices and performance optimization
- Achieved 50% increase in task completion rates and 100% positive team feedback
- Supported developers in maintaining motivation on challenging AI/ML and full-stack projects

Technical Skills

Agentic AI & LLM Development

- **Frameworks:** LangChain (production experience), Multi-Agent Workflows, Agentic AI Systems
- **LLM Integration:** OpenAI API, Anthropic Claude API, Prompt Engineering, Context Memory Management
- **RAG Architectures:** Retrieval-Augmented Generation, Vector Databases (ChromaDB, Embeddings), Semantic Search

- **AI Observability:** Agent Performance Monitoring, Real-time Progress Tracking, Task State Management

Python Development & MLOps

- **Core:** Python (3+ years), FastAPI, Django
- **DevOps:** Docker, Kubernetes-ready containerization, CI/CD pipelines for AI/ML systems
- **Databases:** PostgreSQL, MongoDB, Redis, SQL Server, Vector Databases
- **Testing:** pytest, TDD, Jest

Cloud & Infrastructure

- **Cloud Platforms:** AWS (S3, Lambda), Azure exposure through learning, Fly.io
- **Deployment:** Containerization, Cloud deployment, Production-ready architecture

Machine Learning & Data Science

- **Deep Learning:** TensorFlow, PyTorch, Keras, Hugging Face Transformers
- **Specializations:** Natural Language Processing, Computer Vision, Neural Networks
- **Data:** Data Analytics, Statistics, Data Visualization

Software Development

- **Languages:** Python, TypeScript, JavaScript, Ruby, Node.js, SQL
- **Frameworks:** React, Next.js, Ruby on Rails, Express
- **Architecture:** Software Design Patterns, API Design, Microservices, RESTful APIs
- **Methodologies:** Agile, Scrum, TDD, Git/GitHub workflow

Languages

- English: Professional working proficiency (B2+)
- Spanish: Native

Education

Full Stack Development Program | Microverse | Remote

September 2022 – April 2023

- 1,300+ hours intensive training in algorithms, data structures, and full-stack development
- Specialization in Ruby on Rails, JavaScript, React, Redux, and remote pair programming
- Industry-standard Git workflow, daily standups, and collaborative development practices

AI/ML & Computer Science Specializations | Online (Coursera, edX, MITx, Stanford)

September 2016 – February 2021

- **Machine Learning** (Stanford University - Andrew Ng)
- **Deep Learning Specialization** (DeepLearning.AI)
- **Natural Language Processing Specialization** (DeepLearning.AI)
- **TensorFlow Developer Professional Certificate** (Google)
- **MITx: Machine Learning with Python**
- **Mathematics for Machine Learning Specialization**
- 30+ certifications covering ML, DL, NLP, Computer Vision, TensorFlow, and AI for Medicine

Industrial Engineering & Automation | Universidad de Vigo | Spain

September 1998 – June 2002

- Bachelor's degree in Industrial Electronics and Automation Engineering
- Coursework: Robotics, Control Systems, PLCs, Microcontrollers, Instrumentation, Software Tools

Key Projects

Multi-Agent AI Research System

Technologies: Python, FastAPI, PostgreSQL, Docker, LangChain, Multi-Agent Orchestration

- Autonomous research system orchestrating specialized AI agents with tool-calling capabilities
- Real-time progress tracking and comprehensive state management in PostgreSQL
- Single Docker container deployment for simplified production rollout
- [GitHub](#)

Interactive AI Agent Platform (miagentuca.es)

Technologies: Python, Docker, Agentic AI, LLM APIs

- Production-ready AI agent demonstrations with 3-layer architecture pattern
- Document classification, universal purchase agents, and meta-learning capabilities
- Deployed interactive demos showcasing agentic AI best practices
- [GitHub](#) | [Live](#)

RAG-Powered Q&A System

Technologies: Python, ChromaDB, Anthropic Claude, Vector Embeddings, Semantic Search

- Course materials chatbot using retrieval-augmented generation architecture
- Vector database implementation for efficient semantic search
- Context-aware response generation with Claude LLM integration
- [GitHub](#)

Agentic Document Extraction System

Technologies: Python, Jupyter Notebook, OCR, RAG Pipelines, AI Agents

- Document intelligence system progressing from traditional OCR to agentic extraction
- RAG pipeline implementation with embedding and semantic search
- Production deployment patterns with AWS Lambda and S3

Certifications

AI & Machine Learning (Selected Highlights)

- Natural Language Processing Specialization (DeepLearning.AI, 2020)
- Deep Learning Specialization (DeepLearning.AI, 2018)
- Machine Learning (Stanford University, 2017)
- TensorFlow Developer Professional Certificate (Google, 2020)

- AI for Medicine Specialization (DeepLearning.AI, 2020)
- MITx: Machine Learning with Python (2019)

Python & Development

- Google IT Automation with Python Specialization (2021)
 - Python for Everybody Specialization (University of Michigan, 2017)
 - LinkedIn Skill Assessments: Python, AWS, MongoDB, REST APIs, Git, Node.js
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