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Sobre Mi

Fullstack Developer · Python · FastAPI · React · AI Engineering & RAG

Fullstack Developer focused on **Python**, **FastAPI**, and the AI engineering ecosystem. Specializes in building RAG pipelines, managing vector database engines, and driving efficient LLM inference layers. Experienced in connecting highly concurrent, asynchronous backend architectures with modern **React** clients.

Experiencia

Fullstack Developer, Pawtrics Software LLC – Remote May 2023 – Apr 2024

- Built backend service logic and structured transactional database layers over **Supabase** and **PostgreSQL**.
- Developed highly dynamic client views and frontend dashboards using **Next.js** and **TypeScript**.
- Implemented identity verification and session-state handling workflows driven by **Supabase Auth**.
- Defined deployment pipelines inside **GitHub Actions** to automate production application delivery to **Docker** instances on **Azure**.
- Contributed within agile Scrum cycles, emphasizing comprehensive peer code reviews and clean **Git flow** history.

Educacion

Universidad Tecnológica Nacional (UTN), Undergraduate Student in University Technician in Computer Programming – San Nicolás, Argentina Mar 2025 – present

Proyectos

AI Assistant – Portfolio RAG – [View project](#)

- Developed asynchronous backend APIs using **Python**, **FastAPI**, and strict data enforcement with **Pydantic**.
- Architected a **RAG** pipeline utilizing **HuggingFace** models for embedding generation and **pgvector** (Neon DB) for semantic search.
- Orchestrated modular AI agents via **LangChain**, defining custom **Tools** and **Function Calling** routines to execute isolated tasks.
- Handled streaming inference for large language models (**Gemini** / Llama 3.3) hosted via **Groq**, managing python environments with **uv** and container deployments via **Docker** on **Azure App Service**.

NachUI – Design System & Component Kit – [View project](#)

- Programmed a centralized API in **Nest.js** responsible for serving artifact metadata and driving an integrated chat assistant utilizing **Gemini 2.5** and **Vercel AI SDK**.
- Implemented backend-level **Tools** and **Function Calling** to interact directly with the monorepo workspace ecosystem (**Turborepo** / **pnpm**).

Habilidades

Backend & AI Core: Python, FastAPI, Pydantic, uv, LangChain, Function Calling, Tools, RAG Architecture, pgvector, HuggingFace, PostgreSQL

LLMs & Agents: Vercel AI SDK, Gemini API, Llama, Groq, Inference Streaming, Prompt Engineering

Frontend Tech: React, Next.js, TypeScript, Tailwind CSS, Zustand, TanStack Query, Material UI

DevOps & Infra: Docker, Azure App Service, Supabase, GitHub Actions, Vercel, Turborepo, Monorepos, Git

Methodologies: Scrum, Git flow, Code Reviews, GitHub Projects, Jira

Languages: Spanish (Native) · Technical English (Intermediate)