

Edgar Ignacio Figueroa

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Summary

Fullstack Developer · Python · FastAPI · React · AI Integration

Fullstack Developer focused on **Python**, **FastAPI**, and **React**. I design AI pipelines (RAG, embeddings, agents, LLMs) and integrate backend and frontend into end-to-end products. I work in distributed teams with agile methodologies and structured **Git** workflows.

Experience

Fullstack Developer, Pawtrics Software LLC – Remote

May 2023 – Apr 2024

- Collaborated on a veterinary practice management system using **Next.js** and **Supabase** (PostgreSQL + Realtime), implementing CRUDs and real-time data synchronization.
- Integrated authentication with **Supabase Auth** built reusable components with **Material UI** adopted across the entire product.
- Deployed with **Docker** and automated CI/CD pipelines with **GitHub Actions** on **Azure**.
- Worked in a team using **Git flow**, code reviews, and task management in **GitHub Projects**.

Education

Universidad Tecnológica Nacional (UTN), Student in University Technician in Programming – San Nicolás, Argentina

Mar 2025 – present

Projects

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

- RAG backend with **FastAPI** (Python) and **Pydantic** that generates embeddings with **HuggingFace**, retrieves context by semantic similarity with **pgvector** (Neon DB), and streams responses with **Groq** (Llama 3.3 70B).
- Dependencies managed with **uv** containerized with **Docker** and deployed on **Azure App Service** frontend in **Next.js** with streaming and automatic language detection.

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

- Monorepo with **Turborepo** and **pnpm** with shared packages (UI, AI, CLI, ESLint, TypeScript config) under a modular, scalable architecture.
- Nest.js registry API as the core of the ecosystem serves components and metadata to the **CLI** and AI agent, enabling copy-paste component installation in external projects with zero dependency lock-in.
- Custom **CLI** that consumes the registry API to add **React** / **Next.js** components directly into any project, similar to **shadcn**.
- AI agent powered by **Gemini 2.5** via **Vercel AI SDK** embedded in the documentation for real-time contextual technical assistance.

Skills

Backend / AI: Python, FastAPI, Pydantic, RAG, embeddings, pgvector, Groq, HuggingFace, uv

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

LLMs & Agents: Vercel AI SDK, Gemini, Llama, agents, streaming, prompt engineering

DevOps & Tooling: Docker, Git, GitHub Actions, Vercel, Azure App Service, Supabase, monorepos

Methodology: Scrum, Git flow, code reviews, GitHub Projects, Jira

Languages: Spanish (native) · English (intermediate technical)