Tobías Rozenfeld

Software Engineer focused on Full Stack development and Artificial Intelligence

tobiroz2005@gmail.com | La Plata, Buenos Aires | Portfolio | LinkedIn

PROFESSIONAL SUMMARY

Software Engineer focused on Full Stack development and Artificial Intelligence. Specialized in architecting scalable solutions integrating Computer Vision and Large Language Models (LLMs). Experienced in end-to-end application development, combining modern web frameworks with AI models to solve complex business problems.

TECHNICAL SKILLS

- **Artificial Intelligence & Machine Learning**: Computer Vision, YOLO (Training/Labeling), Generative AI, LLMs (Fine-Tuning/Querying), RAG Pipelines, Ollama, PyTorch, Pandas, NumPy, OpenCV, Hugging Face
- **Digital Twin & Simulation**: NVIDIA Omniverse, Digital Twin environments
- **Backend Development**: Python, FastAPI, Asynchronous Programming, REST API Lifecycle (Design/Integration/Security)
- **Frontend Development**: JavaScript (ES6+), TypeScript, React, HTML5, CSS3
- **Data Management**: PostgreSQL, SQL (Relational Design, Optimization)
- **DevOps & Infrastructure**: Docker, Git, GitHub, GitBash, Linux, Cloudflare, Webhooks

PROFESSIONAL EXPERIENCE

Fullstack Freelance Developer *2022 – Present*

Design and develop end-to-end web applications, dashboards, and monitoring systems using FastAPI and React. Implement AI solutions (Computer Vision and audio processing) to automate operational workflows. Manage PostgreSQL/Supabase databases ensuring high availability and scalability.

Bot Developer & Automation Specialist *2022 – Present*

Develop event-driven bots for large-scale communities, reducing manual moderation load by 80%. Automate operational flows integrating Telegram and Discord APIs.

Web Developer – Drigo *2023*

Build real-time content platforms, optimizing frontend performance and traffic stability by 40%.

KEY PROJECTS

ApuntarIA (Academic AI Assistant)

Developed an asynchronous Python pipeline using OpenAI Whisper and LLMs. Architected a RAG system reducing model hallucinations by 60%, achieving 95% technical fidelity in summaries.

Alcon Monitor (Real-Time Computer Vision)

Built an RTSP streaming pipeline using FFmpeg and MediaMTX. Trained custom YOLO models reaching 92% detection precision for critical objects.

Cryptocurrency Predictive Analysis System
Developed a real-time data ingestion engine using CCXT. Implemented LSTM networks in PyTorch, improving trend identification by 15%.

EDUCATION

- University Technician in Programming (UTN) — 10% completion

LANGUAGES

- Spanish (Native)
- English (Technical-Intermediate)