Oliver García

I am a backend developer specializing in Python and TypeScript. I have experience building APIs, automation tools, CI/CD pipelines, database designs, web services, AI fine-tuning, computer vision systems, and bots. I also work with 3D printing and Blender modeling, and I am currently expanding my skills into game development with Godot, as well as embedded systems using Raspberry Pi and ESP32. I enjoy designing efficient backend solutions and collaborating on technically challenging projects.

Technical Skills

Programming Languages

- Python (FastAPI, Flask, SQLAlchemy, Alembic, Pydantic, Polar, NumPy, etc.)
- TypeScript / JavaScript (basic frontend experience with Astro, React, and Vue)
- C/C++ (optimized file-handling functions in CPython and data manipulation)
- SQL (PostgreSQL, MySQL, SQLite)

Scripting

- Bash / Shell Scripting
- Lua

Cloud & DevOps

- CI/CD: GitHub Actions, GitLab CI
- Linux Servers: Ubuntu, Debian, Arch
- Containers: Docker, Kubernetes (intermediate / basic respectively)
- Cloud Platforms: AWS, Google Cloud, Vercel, Netlify, Render, Heroku, Firebase, Supabase

Tools & Databases

- Git
- NoSQL: MongoDB, Redis
- uv (Python Package Manager)
- Testing Frameworks: Pytest, Jest

Professional Experience & Freelance Projects

DevOps and Backend at Begonlabs

2023 - Present

RitterFinder (Spain Industrial Data Platform)

- Developed and currently maintain the backend and PostgreSQL database for *RitterFinder*, deployed on a company-managed VPS.
- Built and optimized a large-scale scraping system that collects geographic and business data from ~30 industrial directory sites across Spain, including addresses, product information, and market availability.
- Designed automation pipelines to aggregate, normalize, and store data for advertising and business-intelligence campaigns.
- Improved reliability and performance of data ingestion through scheduled tasks, error-tolerant scrapers, and optimized database queries. Built using Python and Playwright for robust, automated data extraction.

OndAI (AI Agents + Integrated CRM for Businesses)

- Implemented backend infrastructure for OndAI, a SaaS platform that provides AI agents for customer management, sales automation, and support.
- Integrated multi-channel messaging (Messenger, WhatsApp, Instagram) using APIs like GreenAPI for WhatsApp and Meta API for Facebook and Instagram.
- Built user authentication, billing-ready architectures, and scalable API endpoints for real-time customer interaction.

CETU — Cámara de Universidades Técnicas de Uruguay

- Developed backend modules for an internal institutional tool used to manage students, courses, academic programs, and participating institutions.
- Designed database models, REST APIs, and internal workflows ensuring data integrity and role-based access.
- Delivered the backend on a self-hosted Supabase instance managed by the university, integrating authentication, storage, and PostgreSQL while maintaining compliance with internal IT policies.
- Supported deployment and DevOps processes to ensure stable and secure operation within the university's infrastructure.

Additional Freelance Work

2020 - Present

Adeptus Studio — Internal Automation & Discord Management Bots
Developed a suite of administrative and moderation bots for Adeptus Studio, an indie development team.
Responsibilities and features included:

- Automated moderation tools and server-management workflows
- Internal ticket and issue-tracking bots integrated with Slack
- Developer-team utilities for reporting, task routing, and project coordination
- Role-based access, event logging, and configurable workflows

Crypto Exchange Discord Bot — P2P Trading Automation
Built a secure, automated trading bot that facilitated peer-to-peer crypto exchanges within a controlled Discord environment.
Core functionalities included:

- Automated ticket creation and transaction processing
- User balance handling and payment verification
- Swap automation with safety checks
- Fee collection and audit logs
- Anti-fraud and rate-limit protection mechanisms

Hacienda (Government Client) — Automated Document Scraping & Reporting System
Created a daily scraping and data-extraction system for a public financial institution.
The system automatically:

- Retrieved a daily email with a temporary form link at 8:00 AM
- Downloaded PDFs with institutional documents
- Parsed data such as budget, contract type, entity, province, and duration
- Generated a structured Excel report and an AI-generated summary for internal review

Education

Self-Taught Software Developer

2019 - Present

Focused on computer science fundamentals, backend and frontend development, and practical software engineering through structured online programs and guided coursework.

- *CS50x: Introduction to Computer Science* — Harvard University.
- *CS50P: Introduction to Programming with Python* — Harvard University.
- *JavaScript Algorithms and Data Structures* — freeCodeCamp.

- Continuous self-learning through online courses, documentation, and real-world personal projects.

Personal Projects

BlueLights — Bluetooth LED Diagnostics Suite

- A Python-based toolkit for discovering, controlling, and diagnosing Bluetooth LED strips.
- Includes device scanning, UUID mapping, stress tests, and remote control features using Bleak and a custom CLI.

CopyClip — Linux Clipboard Manager

- A lightweight, open-source clipboard manager for Linux.
- Originally built with Python, with a planned migration to C++ for performance and system-level integration. A future UI is planned using PyQt6.

Mr. Gato — A personal Discord Music Bot

- A personal Discord bot built with Python capable of playing music from YouTube, Spotify, SoundCloud and Deezer
- Extracts metadata (title, artist, cover) and intelligently searches YouTube for equivalent tracks when provided with external links.

Contact

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