

# Alejandro García López

## PYTHON SOFTWARE DEVELOPER

Python-focused software developer with 6+ years of experience building APIs, data-driven backends and automation tools. Strong background in Django, FastAPI, relational databases and clean, testable code. Comfortable owning features end-to-end, from design to deployment.

Location: Madrid, Spain

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### CORE SKILLS

Python 3.x

Django

FastAPI

REST APIs

SQL

PostgreSQL

Docker

Git

Unit Testing

Async IO

Linux

### TECHNICAL SUMMARY

#### Languages & Frameworks

Python (3.7+), TypeScript (basic)  
Django, Django REST Framework  
FastAPI, Flask

#### Data & Storage

PostgreSQL, MySQL, SQLite  
Redis, Celery  
SQLAlchemy, ORM design

#### DevOps & Tools

Docker & docker-compose  
Git, GitHub, GitLab CI  
Linux, Bash scripting

#### Quality & Practices

Unit & integration testing (pytest)  
Code review, refactoring  
Clean Architecture, SOLID principles

### EDUCATION

#### B.Sc. in Computer Science

Universidad Politécnica de Madrid, 2012 – 2016

### CERTIFICATIONS

#### Python Developer

PCAP – Certified Associate in Python Programming (2020)

#### AWS Cloud Practitioner

AWS Certified Cloud Practitioner (2021)

### LANGUAGES

Spanish – Native

English – Professional working proficiency (B2/C1)

## PROFESSIONAL EXPERIENCE

### Senior Python Developer

Feb 2022 – Present

#### Barcelona Data Labs

Barcelona, Spain (Hybrid)

Leading backend development of data-intensive web services using FastAPI and Django, with a focus on performance, reliability and testability.

- Designed and implemented RESTful and async APIs with FastAPI serving ~2M requests/day.
- Optimized PostgreSQL queries and indexes, reducing key endpoints' latency by up to 40%.
- Introduced automated test suites (pytest, coverage) and CI pipelines, raising coverage from ~45% to 80%.
- Refactored legacy Django modules into a modular service layer, simplifying onboarding and maintenance.
- Containerized services with Docker and improved local dev environments with docker-compose.

### Career Break – Relocation & Professional Development

Feb 2020 – Jan 2022

#### Madrid & Barcelona

Spain

Two-year planned break between roles to relocate from Madrid to Barcelona and deepen Python and cloud skills through targeted study and personal projects.

- Completed advanced online courses on async Python, FastAPI and test-driven development.
- Built several open-source utilities (CLI tools, small web services) published on GitHub.
- Studied cloud fundamentals and obtained AWS Cloud Practitioner certification.

### Python Backend Developer

Feb 2017 – Jan 2020

#### Madrid Tech Solutions

Madrid, Spain

Developed and maintained backend services for internal tools and client-facing web applications using Python, Django and REST APIs.

- Implemented Django-based APIs consumed by Angular and React frontends for enterprise clients.
- Designed database schemas and wrote complex SQL queries for reporting and analytics.
- Automated data import/export workflows with Python, reducing manual work by ~60%.
- Collaborated with frontend and QA teams in an agile environment (Scrum, 2-week sprints).
- Maintained documentation and participated in regular code reviews to ensure code quality.

## SELECTED PROJECTS

### Async Data Ingestion API

FastAPI · PostgreSQL · Redis · Docker

Designed an async ingestion API that receives large JSON payloads from external partners, validates them and queues background processing with Redis and Celery. Implemented robust validation, logging and retry strategies, achieving stable throughput of thousands of records/minute.

### Internal Reporting Dashboard

Django · Django REST Framework · Vue.js (team) · PostgreSQL

Exposed a REST API for financial and operational reports consumed by a Vue.js frontend. Added filtering, pagination and role-based permissions. Helped product and finance teams access key metrics in near real time.

### Automation & Tooling Scripts

Python · Click · Bash · GitHub Actions

Built CLI tools to automate routine tasks (log analysis, CSV transformations, backups) and wired them into GitHub Actions for scheduled runs, improving reliability and reducing manual errors.

## PROFESSIONAL INTERESTS

Modern Python (type hints, async IO), scalable backend architectures, API design, observability (logging/metrics), and mentoring junior developers.

