

# Alessandro Feri

Backend Engineer | Python, PHP/Laravel, APIs & Production Systems

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## SUMMARY

Backend engineer with 4+ years of professional software development experience across healthcare, logistics, and business applications. At Cup24, I modernize PHP systems, build B2B REST APIs, operate Docker Swarm services, and deliver automation, search, and applied-AI capabilities. Previously delivered and maintained web, mobile, database, and serverless systems for a last-mile delivery startup. EU citizen based in Florence; open to relocation within Europe.

## SKILLS

|                |                                                              |
|----------------|--------------------------------------------------------------|
| Backend        | Python · PHP · Laravel · REST APIs · TypeScript · NestJS     |
| Data & search  | MySQL · PostgreSQL · Elasticsearch · Redis · MongoDB         |
| Infrastructure | Docker · Docker Swarm · Nginx · Ansible · AWS Lambda · Linux |
| Additional     | Flutter · Firebase · Angular · Rust · Git                    |

## EXPERIENCE

**Backend Developer — Cup24.it** April 2024 - Present

- Modernize the PHP/Laravel backend of a nationwide healthcare-booking platform.
- Design and build B2B REST APIs that integrate booking services into partner systems.
- Operate production services on Docker Swarm, improving reliability, performance, and day-to-day operations.
- Built an automated pipeline processing approximately 20,000 support tickets per month and reducing manual back-office work by about 20%.
- Developed smart search and a recommendation model that maps symptoms and non-standard terminology to bookable medical services.
- Built a customer chatbot, an AI phone assistant, and internal RAG tooling with Elasticsearch and Pinecone.

PHP, Laravel, Python, Elasticsearch, Pinecone, MongoDB, Redis, RabbitMQ, Docker, Docker Swarm, Nginx, Ansible, Linux

**Freelance Developer — Self-employed** December 2022 - December 2024

- Sole developer for Furider, a last-mile delivery startup: Angular platforms, MySQL database design and operations, and the riders' Flutter app.
- Re-architected order dispatch with AWS Lambda functions that assign incoming orders to online riders in real time.
- Extended the rider app with order management, suggested routes, and photo or signature proof of delivery.
- Delivered a Flutter and Firebase app for a terrarium retailer, including a catalogue, care tutorials, and an integrated lux meter.

Angular, NestJS, Node.js, MySQL, AWS Lambda, Serverless, Flutter, Firebase, Python, Google APIs, Figma, Linux

**Mobile Developer — Albalog srl** October 2021 - August 2023

Built and shipped three Flutter business applications for warehouse operations, lead and client management, and local-network printer discovery.

Flutter, Swift, Kotlin, Windows, macOS

## PROJECTS

- **Nexus** — Developer workspace for projects, tasks, notes, attachments, and global search, with authentication and a PostgreSQL data model. (Drizzle, Neon, Next.js, React, Tailwind CSS, TypeScript)
- **Plate Atlas** — Visual guide to 51 European registration systems and 200+ plate series, modeled as structured TypeScript data and reusable SVG components. (CSS, Next.js, React, TypeScript, Vercel, Vinext)

## EDUCATION

**Computer Science — UNIFI** September 2021 - Present

Expected graduation: early 2027.

## LANGUAGES

Italian — Native · English — Professional