andrefreitas.pt

Porto, Portugal



André Freitas

Python-first full stack engineer, MSc, who gets **things done.**

Senior full-stack engineer with 10+ years of professional experience shipping real products in fast-moving environments. **Python** is my strongest language — Django, data pipelines and services at NBX, Beyond Pricing and NDrive. The last five years in crypto/fintech, owning entire features end-to-end — from API design and data modelling on the backend to high-performance, mobile-first UIs on the frontend. When there is no one else to own a project, I take it. When there is no spec, I write one. Good software ships, and perfectionism is a trap.

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Shipped

Apple Pay, solo
Swift, VISA, compliance · NBX

Recurring crypto orders
Mockups to production · NBX

Zero manual QA releases
Maestro pipeline · NBX

Django v1 → v3
Python, no disruption · Beyond Pricing

01 — Experience

NBX Senior Software Engineer

2021 — now · Remote

Python · Rust · TypeScript · React · Svelte · Kafka · Cassandra · GCP · Kubernetes · Datadog

- Led the full-stack Apple Pay integration *solo* — Swift native development, VISA partner coordination, compliance, UI/UX mockups, and full project management with no dedicated PM or designer.
- Project lead and full-stack developer for recurring crypto orders (DCA) — from product mockups through backend and frontend implementation to production release.
- Built and owned the Adyen credit card integration for crypto purchases, end-to-end.
- Automated iOS and Android releases end-to-end, with Maestro replacing manual QA; built native features for both platforms.
- Temporary lead of the Frontend team during a high-growth phase; involved in hiring and technical interviews.
- Delivered full-stack market price alerts feature, solving real-time notification scalability at scale.
- Integrated Cardano blockchain (Python + Rust); maintained Cardano, Ethereum, and Bitcoin nodes.
- Built micro-frontend architecture; delivered Web + Mobile (Capacitor) from a single codebase.

Accelerator App Freelance Backend Engineer

2020 — 2021 · Part-time

TypeScript · React · GraphQL · MongoDB · Kafka · Redis · AWS

- Maintained and architected a TypeScript/React/GraphQL monolith. Guided migration toward microservices with MongoDB, Kafka, and Redis on AWS.

Beyond Pricing Software Engineer

2019 — 2020 · Remote

Python · **Django** · Ember · PostgreSQL (>20 TB) · GCP · Terraform · Ansible · Datadog

- Temporary tech lead of the data team.
- Upgraded a large Django monolith from v1 to v3 without service disruption.
- Rewrote a revenue-critical VRBO integration; created a data backfill framework handling 20+ TB Postgres.

Talkdesk Software Engineer

2017 — 2019 · Porto

Elixir · Scala · Kafka · RabbitMQ · MongoDB · Redis · Ruby · Kotlin · AWS

- Built the Data Platform streaming pipeline (Kafka, Elixir, Scala) and served on-call for Routing Systems.
- Developed event-driven routing systems handling call lifecycle at scale.

NDrive Software Engineer — 2015 – 2017 · Porto

Python · Ruby · Go · PHP · Docker · Ansible · PostgreSQL · MongoDB · AWS

- Migrated all microservices from Capistrano to Docker in production using Ansible — zero downtime.
- Built the entire observability stack from scratch (Grafana, InfluxDB, Sentry, Collectd).
- Wrote all Ansible configuration covering 100% of infrastructure from scratch.

Google Student Ambassador — 2013 – 2014 · Porto

Selected as Google Student Ambassador at FEUP — one per university. Organised developer events, workshops, and acted as liaison between Google and the student community.

PTWebtech Founder & Developer — 2009 – 2013 · Porto

Founded, built, and sold a web hosting and web development company while still in secondary school and early university. First taste of owning a product end-to-end.

02 — Skills

Languages

Python Strongest
TypeScript
JavaScript
Rust
Go
Ruby
Elixir
Scala
Swift

Frontend

React
Svelte
Vue.js
Micro Frontends
TanStack Query
Testing Library
Mock Service Worker
Capacitor

Backend & Data

Core
Django
FastAPI
Node.js
Kafka
RabbitMQ
Cassandra
PostgreSQL
MongoDB
Redis
ElasticSearch

Infrastructure

GCP
AWS
Kubernetes
Docker
Terraform
Ansible
Datadog
CI/CD

Practices

TDD
Event-driven architecture
Microservices
Domain-driven design
API design
Observability

03 — Education

FEUP FEUP MEng, Informatics & Computing Engineering — 2010 – 2015

Five-year integrated master's at Universidade do Porto: Distributed Systems, AI, Computer Graphics, Agent Systems, Operating Systems, Software Quality & Testing, HCI.
Thesis: *Software Repository Mining Analytics to Estimate Software Component Reliability* — machine learning on Git history to predict which components are most likely to contain defects. Open-source Python tool: github.com/andrefreitas/schwa
Also: IEEE FEUP Student Branch, member & volunteer, organising developer workshops and events.

04 — Side projects



Claudete

AI assistant that runs the operations of my B2B contracting company: email, invoices, calendar, expenses.

andrefreitas.pt/claudete



Specialty Coffee

A free guide for people taking their first steps into specialty coffee.

andrefreitas.pt/coffee



Jiu-Jitsu

Training since 2022. An honest stress-test for staying calm and executing under pressure.

Blue belt

05 — Highlights

TEDx speaker
Porto

Best student, 8 years running
5th through 12th grade

Solo B2B company
Alongside full-time work

"Wherever there is a human being, there is an opportunity for a kindness." — Seneca

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