

# André Freitas

Full-Stack Software Engineer | MSc

Porto, Portugal

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## ABOUT

Senior full-stack engineer with 10+ years of professional experience shipping real products in fast-moving environments. I have spent 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. I am the kind of engineer who figures things out: when there is no one else to own a project, I take it. When there is no spec, I write one. I ask sharp questions, challenge assumptions, and ship with confidence.

At NBX, I led the full-stack integration of Apple Pay — *solo* — handling native Swift development, compliance, UI/UX design, and coordination with VISA partners. I also automated our entire mobile release pipeline, eliminating manual QA from the process. I bias heavily toward execution: good software ships, and perfectionism is a trap.

## EXPERIENCE

-  **Senior Software Engineer · NBX (Norwegian Block Exchange)** Mar 2021 – Present | 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 the mobile app release pipeline with Maestro, eliminating manual QA from the release process entirely.
  - 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.
-  **Freelance Backend Engineer · Accelerator App** Dec 2020 – Feb 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.
-  **Software Engineer · Beyond Pricing** Mar 2019 – Dec 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.
-  **Software Engineer · Talkdesk** Sep 2017 – Mar 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.
-  **Software Engineer · NDrive Navigation Systems** Jul 2015 – Aug 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.
-  **Student Ambassador · Google** 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.

- 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.

## TECHNICAL SKILLS

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**Languages:** TypeScript · JavaScript · Python · Rust · Go · Ruby · Elixir · Scala · Swift

**Frontend:** React · Svelte · Vue.js · Micro Frontends · TanStack Query · Testing Library · Mock Service Worker · Capacitor

**Backend & Data:** Node.js · Django · FastAPI · Kafka · RabbitMQ · Cassandra · PostgreSQL · MongoDB · Redis · Elastic-Search

**Infrastructure:** GCP · AWS · Kubernetes · Docker · Terraform · Ansible · Datadog · CI/CD

**Practices:** TDD · Event-driven architecture · Microservices · Domain-driven design · API design · Observability

## EDUCATION

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**FEUP MEng, Informatics & Computing Engineering** · [Universidade do Porto \(FEUP\)](#)

2010 – 2015

Five-year integrated master's programme covering Distributed Systems, Artificial Intelligence, Computer Graphics, Agent Systems, Operating Systems, Software Quality & Testing, and Human-Computer Interaction.

Master's thesis: *Software Repository Mining Analytics to Estimate Software Component Reliability* — applied machine learning to Git history to predict which components were most likely to contain defects, helping engineers focus testing effort where it matters most. Published as an open-source Python tool: [github.com/andrefreitas/schwa](https://github.com/andrefreitas/schwa)

◆ **IEEE Student Member & Volunteer** · [IEEE — FEUP Student Branch](#)

2010 – 2015

Organised developer workshops and events at FEUP; active contributor to the university's technical community.

## SIDE PROJECTS & HOBBIES

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**Claudete** · [andrefreitas.pt/claudete](https://andrefreitas.pt/claudete)

An AI-powered assistant I am building to help me run my B2B contracting company. It handles email management, invoice archiving, calendar invites, and expense reports — saving me real time on the operational side so I can stay focused on engineering.



**Brazilian Jiu-Jitsu** · Blue Belt

Training regularly since 2022. BJJ is one of the most honest stress-tests for composure under pressure — you learn to think clearly when things are not going your way, stay calm in uncomfortable positions, and keep executing. Those lessons transfer directly to engineering and to life.



**Specialty Coffee** · [andrefreitas.pt/coffee](https://andrefreitas.pt/coffee)

Coffee is a daily ritual, not a caffeine delivery mechanism. I got deep into the world of single-origin beans, extraction, and the craft behind a good cup. To share what I have learned, I launched a small website to help others take their first steps into specialty coffee — for free, because great coffee should be accessible to everyone.

## HIGHLIGHTS

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- TEDx speaker in Porto.
- Best student award every year from 5th through 12th grade — eight consecutive years.
- Operates a solo B2B contracting company alongside full-time employment.

*“Wherever there is a human being, there is an opportunity for a kindness.” — Seneca*