



João Pinheiro

Software • Systems • Curiosity

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 Porto, Portugal
 joacastropinheiro@gmail.com
 +351 968 818 031
 [LinkedIn](#)
 [GitHub](#)
 [Website](#)
 [Goodreads](#)

Interests

Performance optimization,
Databases, Distributed Systems,
Reliability

Projects

[gameboy emulator](#), [sudoku](#), [abra](#),
[LED Matrix](#), [aoc](#), [playground](#)

Experience



Software Engineer
 [Amplemarket](#)
 Mar '23 - present

Tech: Ruby on Rails, Sidekiq, TypeScript, React; PostgreSQL (& TimescaleDB), Redis, Elasticsearch, Kafka, k8s, GCloud

Series A B2B SaaS startup in Sales. I co-developed the first analytics pipeline, using TimescaleDB (ELT) and cube.js. [Overhauled Lead Lists](#). Setup SMTP verification. Reverse engineered JavaScript. Wrote a service called 150 times/s at peak. Wrote first Kafka usage. [Three blog posts](#). Lots of bug investigations, fixes and query plans.



Software Engineer
 [Celfocus - Unified Communications - One Net](#)
 Aug. '19 - Feb '23

Tech: Java (JBoss, Spring, Hibernate), React, PostgreSQL, ActiveMQ; Docker, Bash, Gitlab CI (K8s on GCloud), Helm, Terraform

[One Net](#) is Celfocus's enterprise voice solution with 5 international deployments. The Call Handling Server (CHS) is a 190k SLOC C++ backend with an in-memory DB (no ORM). It speaks telco protocols (SS7 and SIP) and so has strict SLAs. Its database is provisioned via a web app written in React and Java. I did both CHS and backend development (rarely frontend): new features, refactorings, failover in production and new architecture needs.



Summer Intern
 [Caixa Mágica - Portuguese Citizen Card](#)
 Jun. '19 - Jul. '19

Open Source development in C, C++, Qt Quick/QML.

Education



Student
 Instituto Superior Técnico (IST)
 Sep. '15 - Jun. '19

Electrical and Computer Engineering.



Temp Member
 [FST Lisboa](#)
 Sep. '17 - Jan. '18

Student race car team. I programmed PIC μ Cs and reduced the dev loop to one keypress. Worked on a GUI (C++/Qt) & ported it to windows. I loved the passion and dedication of the team.



Member
 [HackerSchool](#)
 May '16 - Sep. '17

Student society that promotes the Hacker spirit. I codeveloped a [pair of GUI apps in C++/Qt](#) and an [LED Matrix](#) in Python and Arduino. Organized events at IST: [a workshop for younger students](#), [hackathons](#) and [CTFs](#).