

João Pinheiro Software • Systems • Curiosity

- **....** 28
- Porto, Portugal
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- in LinkedIn
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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 was part of the initial analytics pipeline effort, using TimescaleDB (ELT), dbt and cube.js. Overhauled Lead Lists. Setup SMTP verification servers. Reverse engineered JavaScript code. Wrote a service called 150 times/s at peak. Three blog posts. Lots of bug investigations and fixes. Many query plans.



- **Software Engineer**
- Celfocus Unified Communications One Net
- **S** 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



- **a** 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.

