



João Pinheiro

Software • Systems • Curiosity

- 📍 27
- 📍 Lisbon, Portugal
- ✉️ joao.castropinheiro@gmail.com
- 📞 +351 968 818 031
- LinkedIn
- GitHub
- Goodreads
- Website

Projects

gameboy emulator, sudoku, abra, LED Matrix, playground, website

Interests

High Load, Performance
Optimization, Distributed Systems,
Reliability

Technologies

Ruby, Rails, Python, Java, C, C++,
JavaScript, TypeScript, React;
PostgreSQL, ElasticSearch, Kafka,
Linux, Bash, Docker, K8s, GCloud,
Gitlab CI, Git

Education



Student

Instituto Superior Técnico (IST)

Sep. '15 to Jun. '19

Electrical and Computer Engineering.

Experience



Software Engineer

Amplemarket

Mar '23 to present

Tech: Ruby on Rails, Sidekiq, TypeScript, React; PostgreSQL (& TimescaleDB), ElasticSearch, Kafka



Software Engineer

Celfocus - Unified Communications - One Net

Aug. '19 to 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 185k 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. It provides a JSON REST API and integrates with many external systems. I started as a CHS dev and later shifted to the web app's backend (rarely frontend). I spearheaded new features, refactorings, migrations with external teams, updates, new conventions across 4 teams, CI/CD for a new project, failover in production, new architecture needs and even onboarding.



Summer Internship

Caixa Mágica - Portuguese Citizen Card

Jun. '19 to Jul. '19

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



Fulltime

FST Lisboa

Sep. '17 to Jan. '18

In Formula Student teams build, test and race a formula style car. I programmed PIC µCs 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 to Sep. '17

HackerSchool is a student society that promoted the Hacker spirit. I codeveloped a pair of GUI apps in C++/Qt and an LED Matrix in Python and Arduino. I also organized events at IST: a workshop for younger students, hackathons and CTFs.

