



João Pinheiro

Software • Systems • Curiosity

27
 Lisbon, Portugal
 joacastropinheiro@gmail.com
 +351 968 818 031
 [LinkedIn](#)
 [GitHub](#)
 [Goodreads](#)
 [Website](#)

Interests

High Load, Performance
Optimization, Distributed Systems,
Reliability

Projects

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

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 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. 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 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](#).