



## João Pinheiro

Software • Systems • Curiosity

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## Technologies

Python, Java, C, C++, JavaScript, Bash, Git, PostgreSQL, Linux, Docker, K8s, GCloud, Gitlab CI

## Interests

Go, Kotlin, Rust, Elixir. Distributed Systems, Concurrency, HA

## Projects

[abra](#), [services](#), [playground](#), [ruby](#), [this website](#)

## Education

- Student
  - [Técnico Lisboa](#) Instituto Superior Técnico (IST)
  - Sep. '15 to Jun. '19
- Electrical and Computer Engineering.

## Experience

- Software Engineer
  - CELFOCUS** [Celfocus - Unified Communications - One Net](#)
  - Aug. '19 to present
- Tech:** Java, JBoss, PostgreSQL, Bash, Docker, Gitlab CI, GCloud, K8s, Helm, Terraform, C++, JavaScript, React, Cypress, AsciiDoc
- [One Net](#) is Celfocus's enterprise voice solution, with 5 international deployments. The Call Handling Server (CHS) speaks both SS7 and SIP, in 185k SLOC of C++, has an in-memory DB and strict SLAs. It's provisioned via a web Portal, written in React and Java. It provides a JSON REST API and integrates with many external systems.
- I started as a CHS dev and promptly shifted to Portal backend (rarely frontend), as I switched to a cross-functional agile team. I was fortunate enough to learn from the project's founding seniors, and emerged in a sort-of generalist Systems overview role later.
- Currently, I do backend feature work, while being the main dev responsible for dev infra (CI w/ many test types), tooling and glue. I try to keep everyone productive and handle the rarer architectural issues. I spearheaded refactorings, migrations with external teams, new features, updates, new conventions across 4 teams, CI/CD for a new project, failover in production, and even onboarding. But most of all, at Celfocus I learned responsibility, commitment and TDD.

- 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 dearly miss 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](#).