



## 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, 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.