











João Pinheiro

Software • Systems • Curiosity

 25
 Lisbon, Portugal
 joacastropinheiro@gmail.com
 +351 968 818 031
 [LinkedIn](#)
 [GitHub](#)
 [Goodreads](#)
 [Website](#)

Technologies

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





Interests

Go, Rust, Erlang/Elixir, Distributed
Systems, Concurrency, High
Availability, DevOps, OSes




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. Currently, I do feature work and I'm also responsible for dev infra (CI w/ many test types), tooling and glue. Trying to keep everyone productive and handling the rarer issues architecturally.


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.

  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 μ Cs and reduced the dev loop to one keypress. Worked on a GUI app (C++/Qt) and 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](#) as a challenge by [Identity](#) and an [LED Matrix](#) in Python and Arduino. I also organized events at IST: [soldering workshops](#) for younger students, [hackathons](#) and [CTFs](#).