











João Pinheiro

Software • Systems • Curiosity

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Technologies

Python, Java, C, C++, JavaScript,
Bash, Git, PostgreSQL, Linux,
Docker, K8s, GCloud, gitlab-runner





Interests

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




Projects

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

Education


 Student
  **TÉCNICO LISBOA**
 Sep. '15 to Jun. '19
BA, 4th-year Electrical and Computer Engineering.





Experience

 Software Engineer
CELFOCUS  [Celfocus - Unified Communications - One Net](#)
 Aug. '19 to present



One Net is Celfocus' enterprise voice solution, with 5 international deployments. It unifies mobile phones, landlines, and softphones while providing many value-added features. The Call Handling Server (CHS) sits in the cell network, speaks both SS7 and SIP (185k C++ SLOC), has an in-memory DB and strict SLAs. Its provisioned via a web Portal, written in React and Java EE+PSQL, integrating with many external systems while providing its own JSON REST API.

I started with a CHS hat then very gradually shifted to Portal backend, as I switched to a cross-functional team. I was fortunate enough to catch and learn from the project's founding Seniors, as my first professional endeavour, and acquired a sort-of generalist Systems role; currently, while I still do feature work, I mostly tend to infrastructure (CI), tooling, glue, dev productivity and work on the more off-the-beaten-path threads product-wide and architecturally. I spearheaded refactorings, infra migrations (Gitlab, GCloud) and a new project (docs with CI/CD).

  Summer internship
 [Caixa Mágica - Portuguese Citizen Card](#)
 Jun. '19 to Aug. '19
[Open Source development](#) in C, C++, Qt Quick/QML.

  Fulltime
 [FST Lisboa](#)
 Sep. '17 to Jan. '18

Formula Student is an annual international student engineering competition. Teams build, test and race a formula style car. For a semester I programmed PIC µCs for automotive and a USB to CAN Interface (C++/Qt); Ported the latter to Windows; Reduced dev loop to one keypress.

  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](#); Codeveloped an [LED Matrix](#) in Python and Arduino; Supported events at IST, such as [soldering workshops for younger students](#), [hackathons](#) and [CTFs](#).