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
Instituto Superior Técnico (IST)
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 as a CHS dev and then gradually shifted to Portal backend, as I switched to a cross-functional team. I was fortunate enough to learn from the project's founding Seniors, as my first professional endeavour, and emerged in a sort-of generalist Systems role; currently, while I still do feature work, I mostly tend to infrastructure (CI with many test types), tooling, glue, keeping everyone productive and handling the more off-the-beaten-path threads, product-wide and architecturally. I spearheaded many refactorings, conventions, 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.