

João Pinheiro Software • Systems • Curiosity

- ₩ 27
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Interests

High Load, Performance Optimization, Distributed Systems, Reliability

Projects

gameboy emulator, sudoku, abra, LED Matrix, playground,

Education



- **Student**
- Instituto Superior Técnico (IST)
- Sep. '15 to Jun. '19

Electrical and Computer Engineering.

Experience



- Software Engineer
- Amplemarket
- Mar '23 to present

Tech: Ruby on Rails, Sidekiq, TypeScript, React; PostgreSQL (& TimescaleDB), Redis, ElasticSearch, Kafka, k8s, GCloud



- **Software Engineer**
- Celfocus Unified Communications One Net
- **Solution** Aug. '19 to Feb '23

Tech: Java (JBoss, Spring, Hibernate), React, PostgreSQL, ActiveMQ; Docker, Bash, Gitlab CI (K8s on GCloud), Helm, Terraform

One Net is Celfocus's enterprise voice solution, with 5 international deployments. The Call Handling Server (CHS) is a 190k SLOC C++ backend with an in-memory DB (no ORM). It speaks telco protocols (SS7 and SIP) and so has strict SLAs. Its database is provisioned via a web app written in React and Java. It provides a JSON REST API and integrates with many external systems. I started as a CHS dev and later shifted to the web app's backend (rarely frontend). I spearheaded new features, refactorings, migrations with external teams, updates, new conventions across 4 teams, CI/CD for a new project, failover in production, new architecture needs and onboarding.



- Summer Internship
- Caixa Mágica Portuguese Citizen Card
- U 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 loved 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.

