





Flávio Sousa

Software Engineer

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UK

Toolbox

Clojure(script)
Clojure
JavaScript
Python
C
CUDA/GPU
Node.js
Lua (NGINX)
Postgres
Elastic Search
Kafka
Datomic
Docker
Git, Linux

Languages

Portuguese (Native)
English (Native-like)
Italian (Learning)

Main skills

Full-Stack
Product
Web Technologies
CI/CD
Functional Lang.
Algorithms
Storage Systems
Cloud Infra.

Backend focused full-stack developer with a background in engineering fluid simulation and professional experience in Clojure(script), JavaScript, Ruby, Python, Kotlin, and Go. My decade-long career in software has given me a solid understanding of how web technologies function, as well as the underlying OS and network infrastructure. I believe the best teacher is a challenging environment and collaborative teammates.

Experience

Senior Software Engineer at Ibis.ai

Belgium

Sep 2023 - Present

Developed full-stack web applications for SNOMED and ICD-10 AI models, and ETL with sensitive medical data. As the first employee, collaborated with the founders on the main app, built Azure Cloud infrastructure and made the stack run on windows and linux containers. The app is deployed on-premise at more than 20 hospitals across Belgium, having grown from only two when I joined. Created cloud decoupled CI/CD pipelines. Provisioned on-site servers for Docker-based deployments, implementing security best practices - Docker Trust, rootless mode, and CVE scanning.

CLOJURE(SCRIPT) - AZURE - DOCKER

Career break

Lisbon

Jan 2023 - Aug 2023

While procuring a new contract in a slow economy, I engaged with the community by: speaking at two tech conferences, working on my open source driving school aggregator with a Clojure stack, and fixing a Clojure/Babashka library that integrated a filesystem notification Go library.

CLOJURE(SCRIPT) - GO - PYTHON - TAILWIND

Clojure Contractor under Equal Experts at Awaze

Manchester (Remote)

Aug 2022 - Dec 2022

- Migration from a legacy SQL Server to Clojure and Kotlin microservices. The team exclusively did mob programming.
- Mentored new team members by conducting regular Friday afternoon Clojure practice sessions.
- Identified bottlenecks with a custom profiling tool (See next page.)

CLOJURE - AWS - POSTGRES - KOTLIN

Career Break

Italy and Lisbon

Aug 2021 - Jul 2022

Launched passaprimeira.xyz and open-sourced it after realising there was no business case but that it was having a positive impact in the Portuguese driving school business. See next page for a conference talk.

CLOJURE(SCRIPT)

Clojure Full-Stack Dev at Momentum AI

Colorado (Remote)

Aug 2019 - Aug 2021

- Full-stack Clojure monolith that ingested data from a Python data pipeline.
- Drastically reduced build time and overall frontend optimization with shadow-cljs and devcards.
- Created and maintained an Elasticsearch instance for log collection and critical alerting of sensor issues.

CLOJURE(SCRIPT) - PYTHON - POSTGRES - ELASTICSEARCH