Flávio Sousa

Software Engineer

linkedin.com/in/fjsousa☒
github.com/fjsousa☒
UK

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
Sep 2023 - Present

Belgium

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
Jan 2023 - Aug 2023

Lisbon

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
Aug 2022 - Dec 2022

Manchester (Remote)

- 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
Aug 2021 - Jul 2022

Italy and Lisbon

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
Aug 2019 - Aug 2021

Colorado (Remote)

- 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

Toolbox

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

Main skills

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

Languages

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