Daniel Fenoll

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Senior Software Engineer | Fullstack, Cloud & Agentic Platforms

Summary

Senior fullstack software engineer with 4+ years building cloud platforms and the products on top of them. At TUI I own a document platform serving **50,000+ users and 300M+ documents** end to end: critical Rust and Python services on AWS, the agentic infrastructure my team builds with, and design decisions made directly with stakeholders. Former JavaScript and React instructor who enjoys mentoring engineers.

Work experience

TUI Group — Spain, hybrid *Jun 2024 – Present*

Fullstack Software Engineer (Cloud, Data & AI) · Europe's largest travel and leisure group

- Build **TUI Archive**, used by **50,000+ users** to search **300M+ documents** in **under 200 ms**: Vue frontend, Python and Rust services on AWS (Lambda, DynamoDB, S3, IAM).
- Write the **critical AWS Lambda services in Rust** that process **thousands of events a day** across logistics and travel documents.
- Own the **agentic infrastructure** used by **the whole development team**, and shipped **natural-language search and AI agents** that take repetitive document work off people's hands.
- **Lead key product and design decisions with stakeholders**, from first conversation to production.

IMMUNE Technology Institute — Madrid, remote *Feb 2024 – Apr 2025*

Instructor, Master in Web Development

- Taught **dozens of students** full-stack development (**JavaScript, React, AI/ML**) and reviewed their projects.

AF Consulting — Alicante, remote *Jun 2022 – Sep 2023*

Software Developer

- Built and maintained **web apps and online stores for SMEs** in Spain and abroad.

fibsen — Valencia *Jun 2019 – Jan 2020*

Developer & Designer, founding team

- Designed the first products and brand of a water-tech startup; worked on its **first funding** pitch.

Personal projects

- **Ligero** *(Kotlin, Android)*: e-ink PDF reader that reflows scanned books; offline OCR to EPUB.
- **Campanile** *(Swift, macOS)*: menu-bar prayer reminders and reader, fed daily by a Python CI job.
- **new_dumb_iPhone** *(Go, iOS)*: turns an iPhone 4S into a minimal phone, with a WhatsApp bridge in Go.
- **trackpad-curve** *(C, Go)*: libinput adapter with speed-dependent curves for Linux touchpads.
- **haskarm** *(Haskell, Python, ESP32)*: OpenCV tracks a hand; a Haskell control loop points a servo arm at it.
- **HTTPServer_C** *(C)*: an HTTP/1.1 server written from scratch on raw sockets.

Education

Master in UX/UI Design & Full Stack Development, Nuclio Digital School *2023*

MicroMasters in Statistics & Data Science, MITx *2020*

BA in Political Science and Public Administration, Universitat de València *2019*

Skills

- **Languages:** Python, Rust, TypeScript, Kotlin, Swift, Go, C · Spanish (native), English
- **Technologies:** AWS (Lambda, DynamoDB, S3, IAM), Vue, React, AI agents, natural-language search