

David Correia

Software Engineer

Lisbon, Portugal · davidfgcorreia@protonmail.com · davidfgcorreia.com · github.com/davidfgcorreia · linkedin.com/in/david-cOrreia

PROFILE

Computer Science and Engineering master's student at Instituto Superior Técnico (AI and Cybersecurity, 17.5/20) who builds full-stack products end to end. Shipped two publishing extensions at Aptoide, merged two fixes into Apache Airflow, and reached the podium at two Lisbon hackathons in 2026.

EXPERIENCE

Teaching Assistant, Forensic Cybersecurity Instituto Superior Técnico Sep 2026 – Present

- Teach and support a group of 20 students in a 200-student course.

Software Engineering Intern Aptoide Jul – Aug 2026

- Built an extension that prepares apps made with AI coding tools (Replit, Lovable and similar) for submission to both the Apple App Store and Aptoide.
- Built a second extension that reuses existing Apple App Store submissions to speed up publication on Aptoide.

Software Development Intern Clevidence Jul – Aug 2025

- Developed ProjecRS, a full-stack tool to extract tables from PDFs, review and edit them, and export the data.
- Implemented the Python / FastAPI backend and the Vue interface.

EDUCATION

MSc Computer Science and Engineering (MEIC) Instituto Superior Técnico 2025 – Present

- Specializations in AI and Cybersecurity · current average 17.5/20.
- Thesis: checkpointing LLM training using CXL on spot VMs.

BSc Computer Science and Engineering (LEIC-A) Instituto Superior Técnico 2022 – 2025

- Final grade 17/20 · algorithms, software engineering, networks, operating systems and AI.

SELECTED PROJECTS

Cascais Micromobility React · TypeScript · FastAPI · PostGIS 2026

- Hackathon prototype that detects abandoned shared bikes from live GBFS data, routes collection teams on real roads and ranks new station sites.

QuantumTrace Python · FastAPI · React · CycloneDX 2026

- Team scanner that inventories cryptography in code, cloud configs and network captures, grades post-quantum risk and exports a CycloneDX CBOM.

DepChain Java · HotStuff · BLS 2026

- Byzantine fault tolerant blockchain prototype with HotStuff consensus, BLS signatures and an EVM-backed runtime.

Apache Airflow TypeScript · React · open source 2025

- Two merged pull requests (#48185, #48392) fixing dropdown visibility in the Airflow web interface.

AWARDS

- 2nd place, Junction Lisbon hackathon (2026)
- 3rd place, Hack the City Lisbon (2026), €1,000 prize

SKILLS

Languages: Python, TypeScript / JavaScript, Java, C++, Kotlin, SQL

Web & backend: React, Next.js, Vue, FastAPI, gRPC, PostgreSQL / PostGIS, Tailwind CSS, Three.js

Systems & security: Distributed systems, BFT consensus, applied cryptography, TCP/UDP networking

Tools: Git, GitHub Actions, Maven, Jupyter, Linux

Spoken languages: Portuguese (native), English (C1)