

Francisca Almeida

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LinkedIn — Github

Professional Summary

Full-stack developer with experience leading technical teams and building scalable web applications. Strong foundation in backend architecture, system design, and modern DevOps tooling. Passionate about improving user experiences through thoughtful design and robust engineering practices.

Work Experience

Full-Stack Developer *DSI - Instituto Superior Técnico* Jun 2025 – Present

- Designing and implementing a digital system to automate course withdrawal processes.
- Collaborating with administrative staff to modernize workflows.
- Contributing to both frontend and backend for integration with internal platforms.

Data Management Intern *MicroHarvest, Lisbon* Aug 2024 – Nov 2024

- Automated Excel-based workflows using a custom dashboard built with Docker, Next.js, and SQL.
- Improved scalability and usability of internal data operations.

Extracurricular Activities

Full-Stack Developer & Team Leader *SINFO (Tech Conference)* May 2024 – Present

- Developed the official web app for over 1400 users.
- Designed and implemented the venue map interface using Figma and Next.js.
- Integrated Grafana dashboards for attendee analytics.
- Led the development team: set goals, timelines, and mentored juniors.

Web Developer & Coordinator *Web.Dev (AeroTéc)* Oct 2023 – Aug 2025

- Coordinated onboarding sessions and technical workshops.
- Developed internal tools including recruitment forms and admin platforms.
- Used Express.js and MongoDB for backend development.

Web Developer & Coordinator *NEIIST* Mar 2024 – Aug 2025

- Created and deployed merch sales page, managed over 220 customer orders.
- Led website maintenance and UX improvements.
- Recruited and trained new technical members.

Software Developer – Electronics Team *RED (AeroTéc)* Oct 2023 – Feb 2025

- Developed embedded systems for data acquisition and transmission.
- Built a simulator and ground station for a mini flight computer.

Education

Master's Degree in Computer Science and Engineering *Instituto Superior Técnico, Lisbon* Sep 2025 – Present

Bachelor's Degree in Computer Science and Engineering *Instituto Superior Técnico, Lisbon* Sep 2022 – Jul 2025

- **Software Engineering:** Developed a complete backend and frontend module for volunteer profile creation with domain invariants and e2e testing (Spring Boot, Vue.js, Cypress).
- **Distributed Systems:** implemented a distributed tuple space with gRPC and Java; replicated server state using Xu & Liskov and Maekawa algorithms.
- **Human-Computer Interaction:** Designed high-fidelity mobile UI prototypes for a quizzes platform (Figma + Firebase integration).
- **Database Project:** Developed ER and relational models for a healthcare system; implemented relational algebra queries and SQL operations for clinical data.

Open Source Contributions

Inbox Zero – Productivity App *GitHub Pull Request*

May 2025

Contributed to Inbox Zero by improving UI consistency and addressing accessibility concerns in the task management interface.

Technical Skills

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

Frameworks: Next.js, React, Node.js, Express.js, React Native, Vue.js

Databases: MongoDB, MySQL, SQL

Tools: Docker, Git, Postman, Kubernetes, Grafana

Concepts: REST APIs, OOP, Unit Testing, API Integrations

Other: HTML, CSS, JSON

Languages

Portuguese: Native

English: Advanced (C1 listening/reading, B2 speaking, B1 writing)