



Alberto Ramos

Software Engineer with over **5 years of experience** specializing in the intersection of design and code. I am most at home bridging the gap between Figma and production using **React**, **TypeScript**, **Tanstack Query** and **CSS Modules** to transform complex requirements into clean, intuitive, and performant web interfaces. My approach centers on design-driven development, Frontend modularity, and system reusability to ensure long-term maintainability.

Experience



Tesla

Software Engineer

Berlin, Germany | May 2023 - **Present**

- Led the Frontend development, architecture, and design of a critical factory software system for carrier management and painting, while also contributing to Backend development.
 - Architected the Frontend and **UI/UX** strategy using **React**, **TypeScript**, **TanStack Query**, and **CSS Modules**, delivering an intuitive UI that improved usability within a very complex factory system.
 - Led the end-to-end redesign and **migration from legacy libraries to Tesla's internal design system**, managing the full lifecycle from **Figma** implementation to production deployment.
 - Migrated the UI from Create React App (CRA) to **Vite**, significantly reducing build times and improving CI/CD pipeline run times.
 - Managed production deployments via **ArgoCD** and **YAML**; optimized availability zone distribution to improve failover capabilities and ensure maximum application uptime.
- Architected and **launched a centralized portal** serving as the primary entry point for Tesla's internal factory software ecosystem, consolidating access to critical monitoring, logging, and deployment infrastructure. Led the entire product lifecycle—from conceptualizing UX/UI designs in **Figma** to Frontend implementation in **React** and **Go** Backend engineering through to production deployment. Integrated a global observability feature to track real-time system downtime across all Tesla factories, ensuring strict adherence to Service Level Agreements (SLAs) and operational KPIs.
- Introduced a shared internal library for an **AI Chat interface**; developed UI components in isolation to create agent-agnostic, plug-and-play modules for seamless integration across multiple platforms.



Cognizant Netcentric

Frontend Developer

Berlin, Germany | Mar 2022 - May 2023

Worked on high-traffic web applications for global clients in the automotive and adhesive sectors; used **AEM** (Adobe Experience Manager), **React**, and **Redux** while architecting a robust, highly reusable styling system leveraging **SCSS mixins**, **functions**, and **BEM notation**.



Talkdesk

Software Engineer

Lisbon, Portugal | Jan 2021 - Feb 2022

Worked on the non-voice interaction system supporting SMS, Live Chat, and Email; implemented Backend micro-services in **Kotlin** and **Spring** while improving the Frontend components using **JavaScript**, **React** and **CSS**.

Contact



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Skills

React, Typescript, HTML, CSS,
Tanstack Query, Redux,
Storybook, Go, Docker, Git,
YAML, ArgoCD, Figma,
Photoshop, Lightroom

Education

Instituto Superior Técnico

MSc in Computer Science and Engineering

Lisbon, Portugal
Sep 2018 - Feb 2022

Final GPA: 18/20
Thesis Grade: 20/20

Aalto University (Erasmus)

MSc in Computer Science

Helsinki, Finland
Sep 2019 - Dec 2019

ISCTE

BSc in Computer Science and Engineering

Lisbon, Portugal
Sep 2015 - Jun 2018

Languages

Portuguese

Native (C2)

English

Fluent (C2)