

David Coimbra

Software Engineer · Lisbon, Portugal

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PROFILE

Software engineer with a deep passion for programming and technology. I focus on building efficient solutions, guided by design and architecture principles that keep systems scalable and maintainable. I am always looking for new challenges to sharpen my skills and widen what I know. Taking an MSc in Software Engineering at FCUL, Universidade de Lisboa.

EXPERIENCE

Software Engineer · Car & Classic

2025 – Present

- Classic-car marketplace on a 20-year-old PHP codebase that grew into a Laravel modular monolith. Cut search filter traffic by ~90%, homepage data by two thirds, and built the form inputs every engineer uses.
- Merged the search filter modal's one-request-per-group calls into a single call, easing the load on Elasticsearch, and rebuilt the modal's front end in three layers so its 20+ filters share that one request.
- Audited the homepage section by section with SEO and product to decide what to server-render, what to load later and what to cap: page data went from 125 KB to 43 KB gzipped.
- Built a virtual photo carousel for listing cards (around 40 on the homepage, 100+ photos each) that loads photos on intent, ten at a time from a paginated endpoint.
- Replaced a wrapper-based form pattern with a company-wide input library: one self-contained component per field, built on small composables and covered by 241 tests. Forms became about half as long.
- Cut the JavaScript bundle by removing legacy code and restructuring the component tree, so each page ships only the components it uses.
- Tracked down and fixed server-side rendering errors, so pages render the same on the server and in the browser.
- Improved the Lighthouse metrics of the marketplace's main pages: lower TTFB and LCP, and less layout shift (CLS).

Stack: Laravel, Inertia, Vue, TypeScript, Elasticsearch

Software Engineer (via TightLine) · WebMD Ignite

2023 – 2025

- Critical healthcare platform on .NET microservices. Reshaped 30 overloaded endpoints into 46, taking responses from 3–11 s to 150–500 ms.
- Split do-everything endpoints into focused, paginated ones; screens that loaded everything at once became overviews with detail views.
- Tuned PostgreSQL indexes against the query plans, dropping the ones the planner ignored and adding the ones the queries needed, and added caching in .NET on the server and TanStack Query on the client.
- Shipped the new endpoints next to the old ones on a live, critical system and retired the old ones gradually, checking Datadog and Sentry after each step.
- Mentored teammates, especially on the front end, through daily code reviews (often suggesting refactors) and one to three pair-programming sessions a day, in a team of about 25.

Stack: .NET, Vue, PostgreSQL, Elasticsearch, RabbitMQ

Freelance Full-Stack Developer · eBlueCode

2020 – 2023

- Client projects from the first meeting to production.
- Turned loosely defined needs into software that shipped, working directly with each client.
- Designed the UX/UI and built the React front ends and Laravel back ends.

Stack: React, Laravel, UX/UI

EDUCATION

MSc Software Engineering · Faculdade de Ciências da Universidade de Lisboa (FCUL)

2026 – Now

BSc Computer Engineering · Universidade de Leiria e Oeste (ULO)

2020 – 2025

TESP Web Development & Multimedia · Universidade de Leiria e Oeste (ULO)

2018 – 2020

SKILLS

Languages	TypeScript, JavaScript, PHP, C#
Front end	Vue, Inertia, Tailwind, Design systems, TanStack Query, React
Back end	Laravel, REST APIs, Webhooks, Cron & background jobs, ASP.NET, EF Core, Hangfire, GraphQL, gRPC, XML
Data & messaging	MySQL, Elasticsearch, Redis, Memcached, AWS SQS, Snowflake, Metabase, PostgreSQL, Solr, RabbitMQ, ETL
Architecture	Modular monolith, Multi-tenancy, Domain-driven design, Microservices, Event-driven, Hexagonal, Vertical slices, MVC, Performance
Cloud & infrastructure	AWS S3, Cloudflare, Docker, Azure
Integrations	Stripe, OAuth 2.0, imgix, Google Analytics, HubSpot, Blueshift, Slack, Trustpilot, OpenAI
Testing & observability	Vitest, Playwright, PHPUnit, Pest, Sentry, Datadog, Cypress, Grafana, Kibana

CERTIFICATIONS

.NET Academy (2025): Microservices Troubleshooting Essentials; Automate All The Things With DevOps; Unlock The Power Of Microservices In The Azure Cloud; Building Microservices With .NET

HackerRank (2024): REST API (Intermediate); SQL (Advanced); SQL (Intermediate); SQL (Basic); JavaScript (Intermediate); JavaScript (Basic); CSS (Basic)

Refactoring.Guru (2023): Dive Into Refactoring

freeCodeCamp (2023): JavaScript Algorithms and Data Structures

Atlassian (2023): Jira Fundamentals Badge

GitKraken (2023): Foundations of Git

Cisco (2023): Python Essentials 1; Python Essentials 2; Data Analytics Essentials; Introduction to IoT; Networking Academy Learn-A-Thon 2023

Plataforma NAU (2023): Introdução à Programação (Instituto Politécnico de Tomar)

Coursera (2022): Google IT Support Professional Certificate

References available on request.