

JOAO CARDOSO

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Duke Masters of Artificial Intelligence graduate passionate about solving global-scale challenges through innovative AI and high-scalability software development

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Durham, NC, USA

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EDUCATION

DUKE UNIVERSITY, Pratt School of Engineering

Durham, NC, USA

M.Eng. in Artificial Intelligence

Aug 2023 – Sep 2024

- *Relevant Coursework:* Sourcing and Modeling Data (Pandas, Numpy), Supervised/Unsupervised ML, Optimization models (Pyomo), Deep Learning (computer vision, NLP, recommendation systems), MLOps, Generative AI and AI Ethics
- *Leadership/Activities:* Intramural Sports Official, Pickleball Club

INSTITUTO SUPERIOR DE ENGENHARIA DO PORTO (ISEP)

Porto, Portugal

B.S. in Computer Science + M.S. in Software Engineering

Sep 2015 – Jun 2021

- *Publications:* [Guide for Microservices in Greenfield Projects](#)
- *Projects:* Pharmacy Ecommerce Platform (.NET), Healthcare Management System (Java, Typescript)
- *Achievements:* Distinguished graduate (merit award)
- *Leadership/Activities:* Basketball and Tennis Teams; Scrum Master; Capstone project team leadership

WORK EXPERIENCE

FARFETCH

Porto, Portugal

Software Engineer (.NET)

Sep 2018 – Jul 2023

- Designed and led end-to-end development of multiple API microservices reducing by 20% the codebase of a monolith and removing dependency on legacy platform services, demonstrating a desire to be an impactful key contributor.
- Successfully migrated two major API microservices to GraphQL, reducing response times by up to 60%
- Drove company-wide definition of GraphQL implementation guidelines, from schema contribution to the revision process, streamlining collaboration across teams, and accelerating code review processes thanks to a more cohesive and unified schema.
- Boosted product crawled pages by over 15% by replacing the existing category tree in Farfetch's sitemap with an AI-generated category model in collaboration with the data science team, showcasing effective communication skills and teamwork.
- Achieved 100% commitment to performance budgets for every release by seamlessly integrating Apache JMeter scripts on BlazeMeter into the deployment pipeline.
- Enforced proactive usage of monitoring tools (New Relic, Grafana, Jaeger, and Logz.io) within the team, achieving a remarkable 65% reduction in production bugs over 4 months, showing proactivity, vision, and autonomy.
- Migrated two .NET Framework microservices to .NET Core, cutting operating costs by over 70% as part of a long term server transition from Windows to Linux.
- Led SEO enhancements by strategically adding links to less-crawled pages, leading to a 60% increase in crawled Product Display Pages and a 40% increase in Product Listing Pages, just in the United States.

LOBA.CX

Oliveira de Azemeis, Portugal

Software Engineer Intern

Feb 2018 – Jun 2018

- Defined the high-level architecture for an e-commerce PaaS (Platform as a Service) project using customers in premise servers as a constraint.
- Led the development of a back-office web portal and designed a cost-effective proof of concept that enabled remote updates of the customer back office.

AREAS OF EXPERTISE

FRAMEWORKS | LANGUAGES | TOOLS

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|----------------------------------|-----------------|-----------|-------------------------|-------------|
| • Object-oriented programming | • Microservices | • .NET | • C# (proficient) | • Jenkins |
| • Design/architecture patterns | • SCM (Git) | • Numpy | • Java (advanced) | • ArgoCD |
| • Containerization (Docker, K8S) | • CI/CD | • Pandas | • Python (intermediate) | • New Relic |
| • Active monitoring | • SEO | • GraphQL | • Golang (beginner) | • Kibana |

SKILLS & CERTIFICATES

- *Certificates:* Microsoft: *OSS PaaS and DevOps*; Udemy: *Python for Data Science and ML Bootcamp*, *Go: The complete developer's guide*, *Leading Effective Meetings*, *GraphQL by Example*, and *Embracing a culture of feedback*
- *Interests:* Travel; Technology; Basketball; Heavy Music; Horror Movies