JOAO CARDOSO

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Durham, NC, USA

Duke Masters in Artificial Intelligence | Mid-level Software Engineer

Looking for full-time opportunities and internships (eligible to start working May 2024 on OPT – no VISA sponsorship required)

https://linkedin.com/in/joaopsc | https://jpscardoso97.github.io/

AREAS OF EXPERTISE

- Object-oriented programming
- Design/architecture patterns
- Containerization (Docker, K8S)
- Active monitoring and alerting
- Functional testing
- Scalability
- Documentation
- Microservices
- Machine Learning
- Data Science
- SCM (Git)
- CI/CD
- SEO
- Ecommerce

FRAMEWORKS & LANGUAGES | TOOLS

- Scikit-Learn
- NumPy
- Pandas
- PyTorch
- Node.js
- Laravel
- React
- .NET C#
- Java
- Python
- Golang
- GraphQL
- SQL
- TypeScript
- Jenkins
- ArgoCD
- New Relic
- Kibana
- Confluence
- Jira
- Azure

WORK EXPERIENCE

FARFETCH — Porto, Portugal
Full-stack Software Engineer — Sep 2018 – Jul 2023

- Designed and led end-to-end agile development of multiple web 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 REST APIs to GraphQL, reducing response times by up to 60%
- Drove company-wide definition of GraphQL by leading technical discussions and the implementation of guidelines documentation, from schema contribution to the revision process, streamlining collaboration across teams, and accelerating code review and testing.
- Helped on-call engineers solving critical issues promptly to minimize system downtime and ensure a positive user experience.
- Worked closely with the QA team to establish automated testing procedures, reducing the number of software defects by 30% and enhancing product stability.
- Achieved 100% commitment to performance budgets for every release by seamlessly integrating JMeter performance tests 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.
- 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.
- 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.
- Designed a cost-effective alternative to Private Packagist by creating a successful proof of concept using Satis, a static PHP package repository generator, to enable remote updates of the customer back office.
- 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 (Laravel web application with Laravel Blade for the UI).

EDUCATION

DUKE UNIVERSITY, Pratt School of Engineering   **Durham, NC, USA**
M.Eng. in Artificial Intelligence   **Aug 2023 – Sep 2024**

- *Coursework:* Sourcing and Modeling Data (Pandas, NumPy), Supervised/Unsupervised Machine Learning, Deep Learning, MLOps, Generative AI (Large Language Models), Computer Vision, AI Ethics, Business Fundamentals
- *Projects:*
    - **Duke Generative AI Hackathon 2023**: CodeTales: Programming Stories for Children (GPT 3.5-Turbo, Python, Azure AI Speech Services, DALL-E) (https://github.com/jpscardoso97/code-tales)
    - **MEng AIPI Kaggle Competition 2023** – (https://github.com/jpscardoso97/philarmoniab-kaggle)
- *Achievements:*
    - Co-founder of Duke AI club
    - Member of Pickleball club
    - Intramural Sports Official

INSTITUTO SUPERIOR DE ENGENHARIA DO PORTO (ISEP)   **Porto, Portugal**
                                                                                 Sep 2015 – Jun 2021
B.S. in Computer Science + M.S. in Software Engineering

- *Publications*: Guide for Microservices in Greenfield Projects
- *Coursework:* Computation Principles, Software Engineering, Computer Architectures, Systems Architecture, Computer Networks, Databases, Cybersecurity, Data Analysis and Statistics, Business Management, Linear Algebra, Calculus, Physics
- *Projects:*
    - Pharmacy E-commerce Platform (.NET)
    - Healthcare Management System (Java, Typescript, MongoDB, MySQL)
- *Achievements:* Distinguished graduate (merit award)

CERTIFICATES AND INTERESTS

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