João Cardoso

New Haven, CT, USA   919.423.2774
https://linkedin.com/in/joaopsc   jocardoso55@gmail.com
https://github.com/jpscardoso97

Software Engineer with 6+ years of professional experience building and maintaining backend microservices in a large-scale global platform. Worked closely with product management, design, and infrastructure in cross-functional teams. Proven track record in architecture, system design and development of backend applications and leveraging various techniques to build AI-Powered solutions.

Education

- **Master of Engineering (MEng.)** Artificial Intelligence | Duke University | Sep 2024
- **Master of Science (MSc.)** Software Engineering | Porto Polytechnic (ISEP) | Jun 2021
    - **Publications:** Guide for Microservices in Greenfield Projects (https://dl.acm.org/doi/10.5555/AAI28992395)
- **Bachelor of Science (BSc.)** Computer Engineering | Porto Polytechnic (ISEP) | Sep 2018

Software Engineering and Artificial Intelligence Experience

Anchorage Digital, New York, NY (remote)   Feb 2025 –
Member of Technical Staff – Transparency (Finance, Billing & Invoicing)
- Building automation tools for billing and invoicing within the Anchorage Digital platform.

Yale University – Clinical NLP Lab, New Haven, CT
Senior Software Engineer   Sep 2024 – Feb 2025
- Streamlined the road to production of Medviz, an AI-based data visualization tool for medical research.
- Led the initiative to implement Jira for Agile project management, streamlining workflows and improving team collaboration and productivity in tracking bugs and feature development by 200%.
- Introduced Confluence for centralized documentation, enhancing knowledge sharing and communication across the teams in the lab.

Farfetch, Porto, Portugal   Sep 2018 – Jul 2023
.NET Software Engineer
- Successfully led the migration of 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.
- Solved critical issues promptly during on-call hours to minimize system downtime and ensure a positive customer experience.
- Worked closely with the QA team to establish automated tests, 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.

Junior Full-Stack Engineer

- 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.
- 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.
- 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.

Skills

- **Development:** .NET Core (C#), Java, Node.js, React.js, GraphQL, Python, C, C++
- **AI/ML:** Pandas, Numpy, PyTorch, Tensorflow, LangChain, HuggingFace
- **Databases:** MongoDB, MySQL, Vector DB
- **Cache/MQ:** RabbitMQ, Redis
- **Cloud:** Azure, Google Cloud, AWS
- **Others:** Docker, Kubernetes, GIT,Jenkins CI/CD, Sonarqube, Linux, Bash, Software Development Principles (design/architecture best patterns/practices), good communication, collaboration and team working skills, code review, root cause analysis, and test automation

Projects

- **MusicJournal:** daily music playlists creation based on user's journaling data. The application leverages sentiment analysis and lyric embeddings (vector database search) to generate music recommendations based on the user's journal entries.
- **Duke Generative AI Hackathon 2023:** CodeTales – AI generated stories for children.
- **MEng AI Kaggle Competition 2023:** Subscription sales prediction using traditional ML.
- **North Carolina Snake Species Classifier:** transfer learning on ResNet50 to classify the 38 most common species of snakes in North Carolina. Implemented using HuggingFace trainers.
- **Pharmacity-Ecommerce:** .NET microservice-oriented ecommerce platform that bundles a set of GraphQL APIs exposed by a unique gateway.
- **MaintenanceTasksManager:** maintenance tasks management web back-office in .NET. Uses RabbitMQ as a message broker to deliver notifications for newly created tasks.

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