MÁRIO CARVALHO
Software Engineer

in /mario-carvalho   ☎ First, invite me

 /MP-C   ✉ mp.crcarvalho@gmail.com

📍 Belgium, Portugal, anywhere

Highly Experienced Backend Engineer with a 5+ year focus on delivering robust and scalable software systems, specializing in enterprise-grade architecture using C#, Python and Java, and maintaining scalable systems and RESTful APIs. My background includes a unique 14-year professional history that guarantees exceptional autonomy, decisive leadership, and critical decision-making—attributes essential for driving technical transitions. Recognized as a Productivity Accelerator for achieving 5-10% efficiency gains through automation and skilled in system migration planning. I champion TDD, SOLID principles, and clean code, ensuring the stability and adaptative evolution of software solutions.

SOFT KILS

- Strategic Business Acumen
- Project Ownership & Accountability
- Mentoring and Leadership
- Communication and collaboration
- Autonomy and Priority Management
- Results Orientation
- Problem-Solving
- Adaptability, Lifelong learner
- Strategic Thinkers

EDUCATION

Bachelor 's Degree in Software Engineering
Universidade Aberta

Full-Stack Development Certification
Wild Code School

Master's Degree in Public Health
Université Catholique de Louvain

Bachelor's Degree in Nursing
Escola Superior de Enfermagem de Coimbra

LANGUAGES

- Portuguese (Native)
- French (Fluent)
- English (Fluent)
- Spanish (Intermediate)
- Dutch (Basic)

SKILS

- **Primary Stack:** C# | NET | React & Expo | Blazor | JS | HTML | CSS
- **Data & Architecture:** SQL Server | Oracle SQL | NoSQL | Database Architecture | Complex Stored Procedures | RESTful APIs | Microservices | DDD
- **DevOps & Quality:** TDD | Automated Testing | CI/CD | Python, Bash
- **Methodologies & Tools:** AGILE (Scrum) | Jira | Confluence | Git | GitHub | IIS
- **Certifications:** HackerRank (SQL) | Cybersecurity (CISCO) | ASP.NET | PRINCE2 | Fast MBA | GenAI (Google) | LLM Intro (Google) | Cloud AWS (on going)

WORK EXPERIENCE

CHU St. Pierre, Brussels   2021 – 2026
Full Stack Developer

- Designed and implemented robust microservices architecture (leveraging Java/Spring principles and Python) to support enterprise-level applications, applying DDD and proven design patterns to ensure scalability and maintainability.
- Championed high quality standards by driving Test-Driven Development (TDD) and integrating extensive unit/integration testing into the daily workflow, fulfilling the Mindera commitment to "Shift-Left" quality and ensuring system robustness.
- Contributed to the design and maintenance of efficient CI/CD pipelines, utilizing Python/Bash automation, and gained foundational knowledge of Kubernetes and containerization to support continuous delivery and deployment.
- Developed and integrated high-performance REST APIs for system interoperability and possess the analytical skills necessary to quickly adapt to complex messaging systems like Kafka and sophisticated API layers such as GraphQL Federation.
- Fostered a culture of knowledge sharing and continuous learning by mentoring junior developers and actively contributing to the entire software development lifecycle within balanced Agile teams.
- Managed and optimized SQL databases, demonstrating the ability to handle complex data requirements crucial for building robust and scalable backend solutions.

Clinique Saint-Jean, Brussels
Nurse and Head Nurse - Interventional Cardiology Department   2011 - 2021

- Directed and delivered clinical operations, digital transformation, and IT projects, consistently improving quality, efficiency, and interdisciplinary communication.
- Spearheaded the implementation of a Digital Patient Reporting System, which significantly enhanced documentation accuracy and accessibility for a team(+12)
- Led a clinical department of [Número] staff, demonstrating strong organizational, problem-solving, and decisive leadership in high-stakes environments.