ADELINO MASIOLI

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PROFESSIONAL SUMMARY

Senior Software Engineer with 13 years of experience in full-stack development, specialising in frontend technologies (React, Next.js, React Native) and robust backend solutions (Node.js, PHP - Laravel, Symfony, Drupal). Proven ability in technical project leadership, designing scalable architectures, and implementing AI-driven automated solutions using modern DevOps practices (AWS, Docker, CI/CD). Holds a Master's degree in Software Engineering and is currently completing a Master's in Web Technologies and Systems Engineering. Seeking challenging roles to leverage technical leadership and experience to drive impactful results.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript/TypeScript, PHP, Python, Dart, Ruby
- **Frontend:** React, Next.js, React Native, HTML5, CSS3/SASS, Flutter/FlutterFlow, Twig
- **Backend:** Node.js (Express, NestJS), PHP (Laravel, Symfony, Drupal, WordPress, Moodle), FastAPI, Django, Ruby on Rails
- **Databases:** PostgreSQL, MySQL, Supabase
- **DevOps & Cloud:** AWS, Docker, CI/CD, Git/GitHub, Acquia
- **Methodologies & Testing:** Agile (Scrum, Kanban), TDD/BDD (Jest, Cypress, PHPUnit)
- **Other:** REST APIs, GraphQL, JWT, WebSockets, CMS (WordPress), E-commerce (WooCommerce, Shopify)

PROFESSIONAL EXPERIENCE

Tech Lead | Software Engineer | Evous Jornadas de Conteúdos com IA - Remote *October 2024 - Present*

- Led a multidisciplinary team as Tech Lead, architecting and delivering an AI-powered data extraction platform tailored for the healthcare sector. Focused on leveraging Retrieval-Augmented Generation (RAG) models for intelligent data extraction from hospital records, transforming raw medical data into actionable insights. Designed and implemented

a robust and scalable backend architecture using Python (FastAPI), Node.js (NestJS), PostgreSQL, AWS, and GraphQL, ensuring seamless integration with various healthcare data systems.

- Utilized vector databases to efficiently store and retrieve complex medical data, improving search and analysis accuracy. Incorporated graph databases to model intricate relationships between medical records, facilitating advanced queries for deeper insights into patient care.
- Developed a microservices-based architecture to ensure flexibility, scalability, and fault-tolerant data processing. Implemented intelligent automation pipelines with OpenAI, Dify, Make, and N8N, automating the extraction and processing of hospital data, including medical documents and patient records, thereby reducing operational time and costs.
- Tech: Python, FastAPI, Node.js, NestJS, AWS, GraphQL, PostgreSQL, Supabase, OpenAI, RAG, Vector Databases, Graph Databases, Microservices, Docker, Agile, Flutter, Dart, Next.js.

Software Engineer | Solution 17 - Brighton, UK (Remote) *September 2020 - October 2024*

- Led the development and maintenance of advanced AI-driven data extraction platforms focused on healthcare data, including medical records and patient health information. Architected scalable, high-performance solutions using Python (FastAPI), Node.js (NestJS), AWS, PostgreSQL, and GraphQL, integrating the latest technologies for the extraction of hospital data and medical records using Retrieval-Augmented Generation (RAG) models.
- Designed and implemented vector and graph databases to optimize search, retrieval, and analysis of complex healthcare data, enabling deeper insights into patient records and medical histories. Integrated FHIR (Fast Healthcare Interoperability Resources) standards to ensure seamless interoperability with existing healthcare systems, enhancing data sharing and integration across platforms.
- Developed a microservices-based architecture to ensure scalability, flexibility, and fault tolerance, while building intelligent automation pipelines with OpenAI, Dify, Make, and N8N to automate the extraction, classification, and analysis of medical documents, reducing operational time and costs.
- Successfully delivered customized solutions for major pharmaceutical clients such as Johnson & Johnson, Roche, Pfizer, and AVT, automating processes such as corporate training, compliance reporting, and workflow management, all within highly regulated environments.

- Tech: Python, FastAPI, Node.js, NestJS, AWS, GraphQL, PostgreSQL, Supabase, OpenAI, RAG, Vector Databases, Graph Databases, Microservices, FHIR, Docker, Agile, JavaScript, React, Next.js.

Software Engineer | Genesis - Lisbon, Portugal (Remote) *December 2019 - July 2020*

- Developed full-stack applications, utilising Drupal for backend CMS and Node.js/Express for RESTful APIs.
- Built dynamic and responsive user interfaces using React, Next.js, and Gatsby, focusing on performance and SEO.
- Implemented features for real-time content delivery, report generation, and dynamic data visualisation.
- *Tech:* Node.js, Express, Drupal, PostgreSQL/MySQL, React, Next.js, Gatsby, React Native, Styled Components.

Senior Engineer | CI&T - Portugal (Remote) *November 2018 - February 2019*

- Developed a scalable Drupal 7/8 educational portal specifically for Johnson & Johnson, engineering custom Learning Management System (LMS) modules, content types, and authentication systems tailored for corporate e-learning.
- Built engaging frontend experiences for the e-learning platform using Twig, React/Next.js, and SASS, contributing to a significant 25% increase in course completion rates.
- Integrated external APIs for automated user notifications and enhanced supporting backend functionality using Laravel and PHPUnit to improve the overall e-learning infrastructure.
- Tech: Drupal, PHP, Laravel, Symfony, Node.js, PostgreSQL/MySQL, React, Next.js, Twig, SASS, Acquia, AWS, Git, Agile, LMS Development.

Mobile Engineer | PrimeIT - Porto, Portugal (Remote) *April 2018 - September 2018*

- Developed a cross-platform mobile application (Android/iOS) for the medical/dental sector using React Native.
- Integrated with backend APIs (REST, JWT) and third-party services (Google Cloud, MEO).

- *Tech:* React Native, Redux, Styled Components, JavaScript, REST APIs, JWT.

Senior Software Engineer | Loggia Digital - Belo Horizonte, Brazil (Remote) *September 2011 - March 2018*

- Led systems integration projects connecting Drupal 7 with external APIs (Salesforce CRM, Totvs ERP) using custom modules (Services, Feeds).
- Developed automated data synchronisation processes using cron jobs, significantly improving operational efficiency and data reliability.
- Built and maintained applications using PHP frameworks (Symfony, Laravel) and platforms (WordPress, WooCommerce).
- *Tech:* Drupal 7, PHP, Symfony, Laravel, WordPress, MySQL/PostgreSQL, Salesforce API, Git, Agile.

Drupal Developer | Torchetti - Belo Horizonte, Brazil (Remote) *January 2009 - September 2012*

- Developed an online community platform using Symfony, implementing real-time features (Pusher) and multi-language support via API integration.
- Achieved a **50% increase in user engagement** through improved UI/UX using Twig and LESS.
- *Tech:* Symfony, Drupal, PHP, MySQL, Twig, LESS, Pusher, Git.

EDUCATION

- **Master's in Engineering of Web Technologies and Systems** ISLA - Instituto Politécnico de Gestão e Tecnologia (ISLA-IPGT) - Vila Nova de Gaia, Portugal *September 2023 - Present (Expected Completion: September 2026)*
- **Master's in Software Engineering (Focus on Agile Methods)** UNA - Belo Horizonte, Brazil *February 2012 - March 2013*
- **Bachelor's Degree in Systems Analysis and Development** UNATEC - Belo Horizonte, Brazil *February 2008 - December 2011*

LANGUAGES

- Portuguese (Native)
- English (B2)