LUÍS MARQUES

Senior Software Developer / Software Architect / Consultant

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Skills

Programming Languages
TypeScript, JavaScript, C++, C#, PHP, R, Python, HTML, Pug, CSS, Sass, Less

Libraries & Frameworks
React, Angular, SAP Spartacus, Vue, Meteor, Node.js, Jest, Cypress, Blaze

Tools & Platforms
Jenkins, Sonar, Checkmarx, MongoDB, GitHub Actions, SQL, SAP CDC / Gigya, Azure, AWS, Meteor Up

Education

University of Beira Interior
2009 – 2011 // Covilhã, Portugal

Spent 2 years in the degree "Information Technology" – dropout to create startups

Developed innovative projects in the Assisted Living Computing and Telecommunications Laboratory

Publications

Organoleptic Testing Based on Psychophysiological Sensing
Aug 2021 // MDPI
Heart Rate Variability (HRV) has a strong correlation with self-reported preferences

A Novel mHealth System for Remote Monitoring of Symptoms in COVID-19
May 2021 // MDPI
Management and visualization of physiological and clinical data

Certifications

SAP Certified Development Associate - SAP Customer Data Cloud + 2023

Industries

High-Tech, Healthcare, Neuroscience, Advertisement, Finance, Automotive, Telecommunications, Retail, Tourism, Government, Manufacturing, Supply Chain, Logistics, Education, Agri-food

Work Experience

Senior Software Developer & Architect @ SAP
Jan 2022 – Present // Remote

- Team lead, providing mentorship, technical expertise and guidance
- Pioneered, architected and developed the first innovative internal projects that extend SAP CDC / Gigya, saving over €760,000 in the first year and 70% to 90% of the time in some tasks
- Architected and restructured internal project initiatives to develop standalone products using BTP, saving hundreds of hours yearly in SAP Commerce Cloud and SAP Spartacus implementations
- Created an internal course to certify SAP Web Developers to improve code quality, resulting in the skill set upgrade of 80% of the team
- Developed custom SAP CDC / Gigya implementations for some of the best companies and governments on the globe with 0 escalations

Strategy & Operations Lead @ Golens
Nov 2020 – Dec 2021 // Portugal, Spain

- Led the operation from conception to a multi-country expansion in less than 5 months, starting without branding, website, product database, suppliers, delivery partners, payment system or packaging
- Developed an internal app to manage product stocks integrated with the invoicing software, enabling the quick management of over 150,000 SKUs
- Optimised the user journey by removing 50% of steps in some cases

Lead Software Developer & Architect @ BrainAnswer
Aug 2015 – Oct 2020 // Remote

- Architected and built a data collection system to remotely record Webcam, Microphone, Eye-trackers, EEG headsets and sensors simultaneously by the millisecond from dozens of stations totalling more than 100 channels each, storing and organizing gigabytes in a short amount of time
- Built a concurrent signal processing system to agnostically run algorithms in 5 different programming languages, such as C++, R, Python, PHP, ImageJ
- Designed and built a powerful study creator tool with video, forms, interactive games, managing stimuli groups and randomisation
- Created a user management system to support the roles of "tester", "user", "organization" and "admin", including a public API for external integrations
- Developed a visualization tool, to see synchronized signals with videos, forms, powerful statistics and cross-referencing data analysis

Lead Software Developer & Architect @ GameTrade
Apr 2014 – Nov 2016 // Portugal

- Built and shipped the marketplace as an MVP in less than 4 months, with an innovative chat with embedded product transactions and feedback
- Created an automated database system that keeps itself updated multiple times a day for over 50,000 games, integrating third-party APIs
- Developed the design language, user experience, front end and back-end
- Created a back-office to manage user badges, reviews, videos, statistics

Open Source

SAP Customer Data Cloud accelerator
Feb 2023 - Present // Associated with SAP
Pioneer, Architect and Product Owner

SAP Customer Data Cloud toolkit
Apr 2022 - Present // Associated with SAP
Pioneer, Architect and Product Owner

Projects

e-CoVig – Automated COVID-19 Symptomatology Remote Monitoring
Feb 2020 - Oct 2020 // Associated with BrainAnswer
Lead Developer and Architect

Mobfood - Scientific and technological solutions for the agri-food market
2018 - 2020 // Associated with BrainAnswer
Neurotechnologies Consulting & Research

Awards

3rd place at DISRU.PT "Shark Tank"
May 2015

Passport to Entrepreneurship
Jun 2014
Secured investment for a startup

Talks

Speaker @ 1st International Congress of Neurotechnologies
Nov 2019 // Castelo Branco, Portugal
State of the Art of Neurotechnologies

Guest Speaker @ Catholic University of Portugal
Nov 2019 // Lisbon, Portugal
Neuroscience in Branding and Marketing

Evaluation Jury @ Building Global Innovators – IUL MIT-Portugal
Apr 2018 // Lisbon, Portugal
International students' business cases

Evaluation Jury @ Cool-Working in CEI - Centro de Empresas Inovadoras
Jan 2018 // Castelo Branco, Portugal
Business plan evaluation

Guest Speaker @ University of Lisbon
Nov 2017 // Lisbon, Portugal
Neuroscience Research and Results

Guest Speaker @ National Meeting of Computer Science Students (ENEI)
Apr 2014 // Aveiro, Portugal
Web Development Foundations

Work Experience

Full Stack Software Developer & Consultant @ Vectis
Feb 2013 – Apr 2015 // Portugal

- Built uniquely innovative website and e-commerce experiences
- Co-created a Web-Documentary with 3D navigation to raise awareness for the ecology in Portugal
- Interfaced with clients regularly, providing technological expertise
- Collaborated with a diverse team organizing workshops and events

Full Stack Software Developer @ RouTrip / Rotas Portugal
Dec 2013 – Nov 2014 // Portugal

- Designed and built a smartphone app using Cordova with integrated QR codes and maps
- Implemented a gamified touristic routes interface with points of interest and prizes for completion
- Developed a web-based app to enable business owners to buy locations and ads on the map

Front End Software Developer @ EyeSee Solutions
Jun 2013 – Dec 2013 // Portugal

- Developed a back-office to manage users, clients and contents of the technology
- Built a jQuery plugin to interact with the proprietary technology on any website
- Designed and implemented a demo website

Full Stack Software Developer @ GiftList
Feb 2012 – Jun 2013 // Portugal

- Developed a framework to synchronize data in real-time between the front end and the database, using JavaScript and PHP
- Built a crowdfunding system to share the costs of a gift to a friend
- Implemented a calendar view for event management and visualization

Full Stack Software Developer @ SMS Server
Apr 2011 – Jan 2012 // Portugal

- Architected (with a Patent Proposal) and built an SMS Proxy system using servers with GSM Modems to reduce the costs of SMS between operators
- Developed a web-based back-office to manage bulk send of SMS, with contact groups and server management
- Created a C++ library to manage GSM Modems, with functions to connect, send SMS, receive SMS and send specific commands
- Built the back-end connection between the user experience and the servers sending and receiving SMS

Full Stack Software Developer @ PaperPile
Sep 2010 – Apr 2011 // Portugal

- Built a secure user authentication system with support for sharing tables of expenses between users
- Developed and designed an inline editable table with automatic calculations
- Created a gamification section for users to manage their goals with progress and statistics
- Shipped the money management web app to track expenses, establish goals and share costs