

Carlos David da Silva Gonçalves

Software Architect | Former CTO | Engineering Leadership | Distributed Systems | Scalability & Performance

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Professional Summary

Software Architect and former CTO with 15+ years of experience designing, scaling and modernizing business-critical platforms across fintech, banking, transportation, e-commerce, education and public sector organizations. Experienced in architecture governance, engineering leadership, distributed systems, cloud platforms, DevOps and performance engineering. Recognized for aligning technology strategy with business goals, mentoring technical leaders, and reducing complexity in large-scale environments.

Key Skills

- Software Architecture & Distributed Systems
- Engineering Leadership & Technical Strategy
- Microservices, Event-Driven Architecture & APIs
- Cloud Platforms (Azure, AWS)
- Performance Engineering & Scalability
- DevOps, CI/CD, Docker & Kubernetes
- SQL Server, PostgreSQL, Oracle & MongoDB
- Cross-functional Leadership & Stakeholder Management

Professional Experience

Software Architect | November First | Denmark | Jul 2021 – Present

- Lead architecture for financial platforms operating across multiple countries.
- Define architecture standards and engineering best practices across multiple teams.
- Drive technical decisions balancing scalability, reliability, security and operational costs.
- Lead architecture reviews, strategic initiatives and cross-team technical alignment.
- Mentor engineers and influence engineering practices across the organization.
- Partner with business stakeholders to align technology investments with business outcomes.

CTO | Inspire IT | Portugal | Feb 2019 – Jul 2021

- Built and scaled multidisciplinary engineering teams.

- Defined engineering strategy, architecture standards and delivery processes.
- Established DevOps culture and continuous delivery practices.
- Led product and technology decisions across multiple initiatives.
- Mentored future technical leaders and engineering managers.
- Introduced modern architecture patterns including CQRS, microservices and cloud-native practices.

Senior Software Engineer (.NET) | Trainline | Oct 2018 – Jan 2019

- Developed customer-facing platforms serving millions of travelers.
- Designed scalable APIs and backend services running on AWS.
- Worked in distributed international engineering teams.
- Contributed to reliability, observability and performance initiatives.

Senior Software Engineer (.NET) | Farfetch | Aug 2018 – Oct 2018

- Contributed to supply-chain platforms supporting global e-commerce operations.
- Developed APIs and backend services for inventory and fulfilment processes.
- Worked in large-scale microservices environments.
- Supported platform reliability, deployment automation and operational excellence.

Senior Software Engineer (.NET) | Raízen | Aug 2016 – Jun 2018

- Delivered business-critical platforms for one of Brazil's largest energy companies.
- Designed distributed services, integration platforms and internal applications.
- Contributed to microservices adoption, messaging architectures and API-first solutions.
- Improved scalability, observability and platform performance.

Senior Software Engineer (.NET) | Evolucionál | Oct 2013 – Jul 2016

- Developed large-scale educational platforms supporting student assessment and admissions.
- Designed REST APIs, distributed systems and caching strategies.
- Worked with analytics, optimization algorithms and large datasets.
- Provided technical leadership, mentoring and DevOps contributions.

Consultant .NET / Product Manager | Portugal | 2011 – 2013

- Led digital transformation initiatives across public and private sector organizations.
- Owned requirements gathering, solution design and product delivery.
- Worked with government institutions and enterprise stakeholders.
- Delivered document management, workflow automation and information management solutions.

Technology Consultant | Deloitte | 2011 – 2012

- Participated in enterprise financial systems projects for major banking institutions.
- Worked on payment processing and mission-critical financial platforms.
- Gained experience in mainframe environments, transactional systems and financial operations.

Independent Consultant & Freelance Developer | 2006 – Present

- Delivered custom software solutions, web platforms and business applications across multiple industries.
- Worked directly with customers defining requirements and delivering end-to-end solutions.
- Built experience across architecture, software engineering, databases and consulting.

Education

Engineering Informatics (Management Branch) | ESTSetúbal / IPS – Portugal | 2012

- **Final Project:** application for performance evaluation of university professors (Best Course Grade).
- **Highlight:** Advanced programming project in Java presented at Science Week.

Languages

Portuguese (Native) | English (Professional) | Spanish (Basic) | French (Basic)