Manuel Bravo

Lead Software Engineer at Porto | Full-Stack .NET Specialist | Test Automation & Quality | AWS | Node.js | Angular | Team Building

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SUMMARY

Lead Software Engineer with over 20 years of experience in full-stack development, specializing in .NET, Node.js, and Angular within the insurance (including health) and financial services sectors. Proven expertise in modernizing complex digital platforms, optimizing system performance, and leading cross-functional engineering teams. Hands-on with test automation and release quality: Selenium UI automation, JMeter load and stress testing, Postman API automation, BDD/TDD with Given-When-Then, and AI-assisted test generation with GitHub Copilot and Claude, enforcing 90% coverage quality gates. Experienced in end-to-end troubleshooting across APIs, microservices, gateways, logs, and databases. Skilled in cloud architecture (AWS), API management, mobile development, and security, and in managing projects from technical pre-sales to delivery.

SKILLS

Languages & Frameworks: C#, .NET Framework / .NET, ASP.NET, Node.js, TypeScript, Angular, Java / Spring Boot, WPF

Test Automation & Quality: Selenium (UI automation), JMeter (load and stress testing), Postman (API test automation), BDD/TDD (Given-When-Then), unit testing with 90% coverage gates (Sonar), Jetpack Compose Testing and XCUITest (regression automation, in progress)

AI-Assisted Engineering: GitHub Copilot, Claude (test and unit test generation, delivery acceleration)

APIs, Cloud & Architecture: REST, SOAP, Microservices, AWS, CA API Gateway, Sensedia, Redis, message idempotency

Observability & Troubleshooting: OpenSearch (pod logs), end-to-end root-cause analysis from client to database

Databases: Microsoft SQL Server, Oracle, MySQL

PROFESSIONAL EXPERIENCE

Lead Engineer *August 2022 to Present*

Porto

Core Responsibilities:

- **Architecture, APIs & Cloud Modernization:** Lead the modernization of Porto Saúde's digital platforms across .NET, SOAP, REST APIs, Node.js, CA API Gateway, and Sensedia. Migrated the API Gateway to Sensedia, reducing platform costs by ~30%, and modernized ~80% of legacy .NET/SOAP services to Node.js, reducing security vulnerabilities by ~70%.
- **Mobile, Security & Digital Experience:** Lead the migration of a legacy Ionic app (in place since 2016) to native iOS (Swift) and Android (Kotlin), improving a critical appointment-booking journey from 12–20s to ~1.2s. Implemented facial biometrics for reimbursement workflows, reducing fraud by ~40%.
- **Regression Automation for the Native Apps:** Leading the regression automation for the new native apps with Jetpack Compose Testing (Android) and XCUITest (iOS), replacing the Selenium-based UI tests used on the browser-based Ionic app.
- **Test Automation & Release Quality:** Use Selenium for UI test automation, Postman for API test automation, and JMeter for load and stress testing. Advocate for load testing before new products go live, working with the Quality CoE to design tests that reflect real usage and load. Teams follow BDD/TDD from user stories written in Given-When-Then, validated by QA.
- **AI-Assisted Testing & Developer Productivity:** Led a pilot of GitHub Copilot and Claude, now adopted across the team to accelerate delivery and generate unit tests under Sonar quality gates requiring 90%+ test coverage, contributing to a measured ~40% increase in developer productivity. Reduced a critical processing workflow from 8 to 4 hours through architecture and engineering-practice improvements.
- **Production Troubleshooting & Reliability:** Troubleshoot intermittent failures reported by the app, chatbot and website end to end, across client, firewall, API gateway, microservices, pod logs (OpenSearch) and database. Improved reliability with message idempotency and Redis caching.

Key Technologies and Tools: ASP.NET, .NET Framework, Node.js, C#, TypeScript, AWS, Microservices, REST, SOAP, Oracle, Redis, OpenSearch, Selenium, JMeter, Postman, Sonar, Jetpack Compose Testing, XCUITest, Swift, Kotlin, GitHub Copilot, Claude

Operation Manager *April 2022 to August 2022*

Digisystem

Core Responsibilities:

- **Technical Pre-Sales & Solution Design:** Led solution architecture and technical proposals for AMS, Service Desk, and Cloud opportunities across Brazil and LATAM, including Java-based enterprise solutions.
- **Delivery & Resource Management:** Managed project financials, resource planning, and technical teams across financial services, insurance, and startup clients.
- **Client & Commercial Leadership:** Worked directly with clients from requirements and solution definition through technical proposal, estimation, and commercial negotiation.

Key Technologies and Tools: Java, Spring Boot, Project Management, RFC, Team Leadership

Project Manager *October 2019 to April 2022*

Indra

Core Responsibilities:

- **Project & Delivery Management:** Promoted to Project Manager, leading financial services and insurance projects across delivery, people, risk, budget, and capacity management.
- **Agile Transformation — Scrum & Waterfall:** Introduced Agile/Scrum practices to teams transitioning from Waterfall, improving delivery speed by ~30%. Led and mentored software development teams through the transition.
- **Financial & Commercial Management:** Managed budgets and resource allocation, sustaining ~32% annual profit margin across outsourcing engagements. Prepared and negotiated on-demand and fixed-scope proposals, balancing client requirements, delivery capacity, and profitability.

Key Technologies and Tools: Project Management, ASP.NET, MSSQL Server, C#

Lead Software Engineer *August 2018 to October 2019*

Indra, São Paulo, Brazil

Core Responsibilities:

- **Lead Software Engineer:** Promoted to Lead Software Engineer, leading development and production support teams while maintaining SLA compliance throughout the year using ITIL and HPSM practices.
- **Test Automation:** Used Selenium for UI test automation and JMeter for load and stress testing as tech lead, supporting release quality for client projects.
- **Team & Delivery Management:** Reduced developer overtime from ~40 to ~10 hours/month (75%) through workload planning, team allocation, and delivery management, while generating project and baseline cost savings with agile practices and upskilling developers in C# and ASP.NET.
- **RFPs & Technical Pre-Sales:** Participated in RFPs and developed technical proposals for C#, ASP.NET, and SQL Server projects valued at R$500K–R$1M, with multiple proposals approved, contributing to the project pipeline and team revenue.

Key Technologies and Tools: Team Leadership, ASP.NET, MSSQL Server, C#, .NET Framework, Selenium, JMeter

Senior Software Engineer *January 2017 to August 2018*

Indra

Core Responsibilities:

- **Solution Architecture: C#, ASP.NET & SQL Server:** Improved market platform solutions using C#, ASP.NET, and Microsoft SQL Server, increasing product capacity and leading technical design, requirements, scope, and estimation.
- **Technical Leadership & Delivery:** Acted as a technical reference across development and production support, coordinating teams and delivery planning to meet client requirements.
- **ITIL, HPSM & SLA Management:** Improved SLA compliance from 70% to 98% using HP Service Manager (HPSM) and ITIL practices, supported by better team allocation, incident management, knowledge sharing, and operational planning.

Key Technologies and Tools: ASP.NET, MSSQL Server, C#, .NET Framework

Enterprise Software Engineer *August 2016 to January 2017*

Linx

Core Responsibilities:

- **WPF & .NET Performance:** Improved WPF-based POS integration applications by ~15%, increasing responsiveness across key screens.
- **Architecture & Data Access:** Improved application architecture and database mapping, simplifying data access, maintainability, and code organization.
- **POS & Retail Integration:** Developed and maintained C#/.NET POS integration solutions for the retail ecosystem.

Key Technologies and Tools: WPF, MSSQL Server, C#, .NET Framework, Stored Procedures

Software Engineer *May 2013 to May 2016*

COREON

Core Responsibilities:

- **.NET Performance: C#, .NET & LINQ:** Improved market systems performance by ~20%, optimizing critical processing workflows for major financial and insurance clients.
- **Data Access & Code Quality:** Improved development efficiency and maintainability using LINQ and optimized data-access patterns.
- **SQL Server & Batch Processing:** Designed and optimized SQL Server stored procedures for high-volume batch processing, improving performance and handling of large datasets.

Key Technologies and Tools: .NET Framework, C#, LINQ to SQL, MSSQL Server

Software Engineer *October 2009 to May 2013*

DIMEP

Core Responsibilities:

- **Legacy Modernization: VB6, C#/.NET & WPF:** Migrated a legacy VB6 application to C#/.NET and WPF, modernizing the architecture and improving application performance.
- **SDK & Hardware Integration: C#, TCP/IP:** Designed and developed a C# SDK over TCP/IP for electronic time clocks, scheduling, email, parking, and access control. Built a hardware abstraction layer supporting proprietary and OEM devices through a unified SDK.
- **Product Engineering & Cost Optimization:** Worked with an international team on the launch of an Ordinance 1510-compliant time-clock solution using OEM hardware, reducing device cost from R$3,000 to R$800 (~73%) and making the product more accessible to small businesses.

Key Technologies and Tools: MySQL, MSSQL Server, VB6, C#, .NET Framework, WPF

Software Engineer *December 2008 to October 2009*

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Core Responsibilities:

- **Legacy Systems with VB6 & Classic ASP:** Maintained and evolved a production rental management platform built with VB6, Classic ASP, and MySQL, troubleshooting business-critical issues and supporting a growing multi-user environment.
- **.NET Modernization:** Contributed to the migration of the legacy platform from VB6/Classic ASP to C#/.NET, supporting the transition while maintaining production stability.
- **Database & Performance:** Optimized MySQL architecture, queries, transactions, and locking strategies, reducing critical processing time from 8 to 2 hours (75%) and eliminating recurring deadlocks and transaction issues.

Key Technologies and Tools: VB6, ASP, ASP.NET, C#, .NET Framework, MySQL

EDUCATION

MBA in AI Engineering *2026 - 2027*
UNIPDS

Master of Business Administration - MBA, Project Management *2020 - 2021*
Impacta Tecnologia

Associate Degree in Systems Analysis and Development *2010 - 2013*
Centro Universitário FIEO

LANGUAGES

- **Portuguese:** Native or Bilingual
- **Spanish:** Native or Bilingual
- **English:** Full Professional