

Igor Freitas Couto

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Open to relocation: Yes

SUMMARY

As an experienced developer with six years of expertise in .NET technologies and software architecture, I have worked across various segments and in companies of diverse sizes. I am deeply involved and committed to daily work challenges, aiming not only to produce high-quality code but also to deliver software that significantly impacts both the company and its customers. A strong advocate of agile methodologies and best practices, I continuously strive to learn and stay updated with emerging technologies and trends in the software development industry.

KEY TECHNICAL SKILLS

Programming

- .NET and C#
- ASP.NET
- Bash Script
- JavaScript
- TypeScript
- Angular
- HTML
- CSS

Automated Testing

- Unit Tests (xUnit/nUnit)
- Acceptance Tests
- E2E Tests
- Wiremock
- Selenium
- SpecFlow

Database Technologies

- PostgreSQL
- Microsoft SQL Server
- Snowflake Warehouse
- MongoDB NoSQL
- Citus
- Redis
- Entity Framework ORM
- Dapper ORM

Software Architecture

- Domain Driven Design
- Clean Code
- Clean Architecture
- Design Patterns
- Microservices

Cloud and DevOps

- CI/CD Concepts
- GitHub Actions workflows
- GitLab pipeline
- Docker
- AWS Cloud Services
- Semantic Versioning
- Conventional Commits
- Git
- GitFlow and GitHub Flow

Agile & Project Management

- Agile Principles
- Scrum Agile Framework
- Kanban Agile Framework
- Jira
- Azure DevOps
- Miro
- Figma
- UML
- C4 Diagram

EMPLOYMENT

Checkout.com – Software Engineer

Aug 2023 – Present

Reports and Reconciliation Team

As a Software Engineer at Checkout.com, a leading fintech specializing in payment processing, I am a member of the Reports and Reconciliation team. My responsibilities include developing and enhancing features for various services, notably in report generation, client settlements, invoices, and related areas. This work contributes significantly to the company's operational excellence and customer satisfaction.

- Development of new features
- Financial reconciliation for clients with large data volumes such as Uber Eats, Shein, Patreon, WISE, Sony, and many others
- Experience with Snowflake data warehouse
- Automated unit, functional and e2e testing
- Participating in code review and pair programming
- Collaborated with employees in offices around the world

Technologies and tools: .Net 7, Snowflake Database, PostgresDB, Dapper ORM, AWS Services (SSE-KMS, DynamoDB, Kinesis Data Stream, Kinesis Firehose, SQS, SNS, S3 and Lambda Function), Docker, bash script, Git, GitHub, GitHub pipeline workflow, GitHub Flow, xUnit, cucumber.js, Typescript, Wiremock, SCRUM Agile Framework, Jira, Miro, Octopus Deploy, Spacelift, Terraform.

Lambda3 Consulting, Brazil – Software Developer

Oct 2020 – Aug 2023

Project: Bank Slip Generation

At a fast-growing fintech company, I developed a system offering businesses a new alternative payment option, the Brazilian bank slip (*Boleto*).

- New project that became part of an existing ecosystem
- Integration with Bradesco, one of Brazil's largest banks
- Integration with a government system
- Automated unit and functional testing
- Part of a small and efficient team

Technologies and tools: .Net 6, CockroachDB, Dapper ORM, AWS Services (Lambda Function, SQS and EC2), Docker, bash script, xUnit, Wiremock, Git, Git Flow, GitLab, Gitlab Pipeline, SCRUM Agile Framework, Miro, ClickUp project management tool.

Project: Wallet System for Cashback

The Wallet system allows businesses to send cashback rewards to customers in their virtual wallets. The cashback is treated exactly as real money and can be redeemed to gain discounts at selected stores.

- Greenfield project
- Kickoff and inception meetings
- Researched wallet, account ledger, and double entry bookkeeping systems architecture
- Experience with distributed SQL database Postgres Citus
- Automated unit and functional testing
- Participating in code review and pair programming

Technologies and tools: .Net 6, PostgreSQL Citus, Entity Framework, Database Migrations, Azure Functions, JWT Authorization Tokens, Docker, cake scripts, NUnit, Wiremock, Git, Azure DevOps, SCRUM Agile Framework.

Project: Chat System Platform

Elaboration and development of a chat and customer service system for one of Brazil's main retail chains, which provided scale and market gain, especially during the pandemic. The chat system is integrated with WhatsApp Business API from Meta and the company's own mobile app, serving as a conversation aggregator. Seller users can perform customer services and administrative users can mass message potential customers.

- Fullstack role, developed new features and client support
- Implemented many features like bulk messaging, scheduled messages, etc
- Analyzed and improved system architecture and performance
- Supported high message volumes due to events like Black Friday
- Designing NoSQL database MongoDB hosted on Atlas.
- Automated unit, functional and integration testing
- Participating in code review and pair programming

Technologies and tools: .Net Core 3.1, Angular 10, Typescript, SPA, HTML, SASS, npm, WebSockets, SAML (SSO), MongoDB NoSQL hosted on Atlas, Redis, Database Migrations, AWS Services (S3, Lambda Functions, SQS, SNS, API Gateway and EC2), Docker, NUnit, Selenium, Wiremock, Git, GitLab, Jira, SCRUM Agile Framework, Figma.

Delage Logistics & Supply Chain, Brazil – Systems Analyst

Mar 2018 – Oct 2020

Warehouse Management System (WMS) development:

Development of many features for the WMS and other auxiliary software for the logistics segment. Created requirements documents, customer visit for demonstration and product deployment in Brazil and Argentina. Architecture and development of integration interfaces with third party systems (ERPs, warehouse automation, etc).

- Fullstack role, developed new features
- Legacy system maintenance
- Traveled to clients for on-premise system implementation
- Optimized queries and stored procedures
- Provided client support and problem resolution
- Participating in code review and pair programming

Technologies and tools: .NET Core 3.1, .NET Framework, Visual Basic 6, Microsoft SQL Server, T-SQL, stored procedures, views, jobs, triggers, Database Migrations, SOAP, REST, JavaScript, jQuery, ASP.NET Razor, Git, Git Flow, Jira, Kanban Agile Framework

Integration with Pallet Shuttle and Picking automation hardware:

Development of integration systems to logistics automation machinery in warehouses.

- Windows Service development
- Integrated with low-level systems using TCP sockets
- Conducted tests and on-site deployments
- Collaborated with developers from partner companies
- On-site implementation and support
- Implemented integration using technical manuals in different idioms

Technologies and tools: .NET Core 3.1, .NET Framework, Windows Services, Socket TCP, Microsoft SQL Server, T-SQL, Git, Bitbucket, Jira.

Prime System Technical Courses, Brazil – Part Time Teacher

Mar 2017 – Mar 2018

As an instructor, I taught Introduction to Programming with C#, Unity Game Engine and creating art assets. This role offered me a unique opportunity to engage with a diverse range of learners, further improving my communication skills and gaining teaching experience.

- Experience in class planning
- Experience in creating content

Technologies and tools: .NET Framework, Unity Game Engine, Blender 3D and Adobe Photoshop

EDUCATION

Federal University of Juiz de Fora
Computer Science

2012 – 2018

- Member of the junior enterprise, CODE
- Member of the Computer Graphics, Image and Vision Group
- Member of the Computer Science Tutorial Education Group, participating in the development of EducAR Quadrics and LocalizAR UFJF apps
- Led a course for 40 students on 3D modeling
- Co-authored two academic articles

Instituto Técnico Profissionalizante do Vale do Rio Preto
Technical certificate, Computer Assembly and Repair

2005 – 2006

- Acquired comprehensive knowledge of computer hardware and software, including operating systems.
- Gained proficiency in Linux terminal usage, managing files and system processes.
- Developed skills in troubleshooting and repairing various computer issues, such as hardware malfunctions and software errors.
- Experienced in the assembly and disassembly of computer systems, understanding component compatibility, and system upgrades.

PERSONAL SKILLS

- Self-taught in many technical skills, I love to program in my free time to challenge myself.
- Motivated to explore new ideas.
- Ability to assess a situation and determine the next steps to take.
- Quickly acclimate to different environments.
- Good problem-solving skills and creative thinker.
- Open to new processes and technologies.
- Able to empathize with customers and let them know I care about their issues.

ADDITIONAL

Official Microsoft Certification from Free Code Camp – Foundational C# with Microsoft [\[Link\]](#)

Getting Started with SpecFlow Certification – BDD Framework for .NET [\[Link\]](#)

English Certification ETS – TOEFL iBT – Certified 2022, Scored 91 of 120 [\[Link\]](#)

English Certification EnglishBay Platform – Certified 2023, Advanced English [\[Link\]](#)

Alura – The largest technology education ecosystem in Brazil

- Microservices Fundamentals: Delving into the Concepts [\[Link\]](#)
- Microservices: Design Patterns [\[Link\]](#)
- AWS SQS: Messaging and System Decoupling [\[Link\]](#)
- Fundamentals of Agility: Steps Towards Agile Transformation [\[Link\]](#)
- SCRUM: Agility in Your Project [\[Link\]](#)

Co-author of two academic publications:

*(2019) EducAR – Quadrics: A Tool to Aid teaching of Calculus through Augmented Reality
Brazilian Journal of Computers in Education (Revista Brasileira de Informática na
Educação – RBIE), 27(2), 198-217. DOI: 10.5753/RBIE.2019.27.02.198. [\[Link\]](#)*

*(2017) A Tool to Aid teaching of Calculus through Augmented Reality
XXVIII Brazilian Symposium on Computers in Education (XXVIII Simpósio Brasileiro De
Informática Na Educação - SBIE), DOI: 10.5753/cbie.sbie.2017.595. [\[Link\]](#)*

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GitHub Profile: <https://github.com/igor-couto>