

Igor Freitas Couto

Email: igor.fcouto@gmail.com

Country of residence: Portugal

Phone Number: +351 913986672

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
- Cucumber

Database Technologies

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

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.

- Software development in .NET 7
- System design and development
- Experience with Snowflake data warehouse
- Automated unit, functional and e2e testing
- Participating in code review and pair programming
- SCRUM Agile Framework and Jira as project management tool

Technologies and tools: .Net 7, Snowflake Database, PostgresDB, Dapper ORM, AWS Services: SSE-KMS, DynamoDB, Kinesis Data Stream, Kinesis Firehose, SQS, SNS, S3, Docker, xUnit, Acceptance Tests, cucumber.js, e2e Tests, Wiremock, Git, GitHub Flow, GitLab, Scrum AgileFramework.

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 payment option, the Brazilian bank slip (*Boleto*).

- Software development in .NET 7.
- System design and development.
- Experience with distributed SQL database CockroachDB.
- Automated unit, functional and integration testing.
- Participating in code review and pair programming.
- SCRUM Agile Framework and ClickUp as project management tool.

Technologies and tools: .Net 6, CockroachDB, Dapper ORM, AWS Lambda Function, AWS SQS, Docker, xUnit, Integration Tests, OAuth 2, xUnit, Wiremock, Git, Git Flow, GitLab, Scrum Framework.

Project: Cashback Wallet

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.

- Software development in .NET Core 6 with minimal API.
- Web API design and development.
- Experience with distributed SQL database Postgres Citus.
- Azure Cloud infrastructure and services.
- Automated unit, functional and integration testing.
- Participating in code review and pair programming.
- SCRUM Agile Framework and AzureDevops as project management tool.

Technologies and tools: .Net 6, Postgres Citus, Entity Framework Core, Database Migrations, Azure Functions, OAuth 2, JWT Authorization Tokens, Docker, 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.

- Software development in .NET Core 3.1 and Angular 10.
- Programming and designing database NoSQL MongoDB hosted on Atlas.
- Experience in WebSockets.
- Experience in SAML (SSO).
- AWS Cloud infrastructure and services.
- Automated unit, functional and integration testing.
- SCRUM Agile Framework and Jira as project management tool.
- Participating in code review and pair programming.

Technologies and tools: .Net Core 3.1, MongoDB, Redis, Database Migrations, AWS S3, AWS Lambda Functions, AWS SQS, AWS SNS, AWS API Gateway, Angular 10, SPA, HTML, SASS, npm, 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) Platform:

Development of many features for the WMS 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 and automation).

- Software development in .NET Core 3.1, .NET Framework, Visual Basic 6, T-SQL, JavaScript, jQuery and Razor.
- Web API Development.
- Programming and designing database SQL Server.
- Experience in writing Stored Procedures, Views, Jobs, etc. (T-SQL).
- Experience in designing and developing Web services (SOAP, REST).
- Experience in deploying on-premises systems.
- Experience in customer support.

Technologies and tools: .NET Core 3.1, .NET Framework, Visual Basic 6, T-SQL, SOAP, JavaScript, jQuery, Razor, Git, Git Flow

Integration with Shuttle and Picking automation hardware:

Development of integration systems to logistics automation machinery in warehouses.

- Windows Service development.
- Experience in writing Stored Procedures (T-SQL).
- Development of complex integrations.
- Deploy on premise systems.
- On-site implementation and support.

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

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

2012 – 2018

Computer Science

- 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

2005 – 2006

Technical certificate, Computer Assembly and Repair

- 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

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

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

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. [\[Link\]](#)

LinkedIn Profile: <https://linkedin.com/in/igor-fcouth>

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