

# Paulo Coelho Filho

Full Stack Software Engineer

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## WORK EXPERIENCE

### Founder & Senior Software Engineer | Alquimia Tech - Dec 2024 – Present

*São Paulo, Brazil*

- Founded Alquimia Tech and led the end-to-end development of **OmniAlex**, a SaaS platform for legal document automation, from product discovery and architecture through implementation, testing, deployment, and iteration.
- Designed and developed a full-stack architecture using **NestJS, TypeScript, React, PostgreSQL, and Prisma**, including REST APIs, authentication, document-processing workflows, and automated testing.
- Integrated **AI coding agents throughout the SDLC** for planning, implementation, debugging, testing, and code analysis, while maintaining engineering ownership of architecture, technical decisions, and production quality.
- Established disciplined practices for validating AI-generated code through **hypothesis-driven debugging, instrumentation, automated tests, regression protection, and incremental delivery**.
- Engineered complex **DOCX generation and processing workflows**, including dynamic field mapping, validation, calculations, XML-level document manipulation, and preservation of Word document structure and formatting.
- Owned technical and product decisions in an early-stage SaaS environment, balancing **delivery speed, maintainability, customer requirements, and engineering quality**.

### Fullstack Software Engineer, Tegus - July/2022 Vancouver - November 2024, British Columbia

*With more than 100 investment firms in the contributory Tegus network, Tegus is the fastest growing and largest investment expert network library.*

- Developed Excel COM add in that fetches companies financial statement data and assists users on updating their own custom models, allowing them to make better informed decisions on their investments.
- Mentored junior developers on product concepts, best practices and problem solving techniques
- Supported users by troubleshooting issues reported through the support team, participating on client calls and identifying improvement opportunities
- Use best in class technologies to achieve great solutions, such as AWS, graphql, .net, VSTO, Inno Setup, gitlab, Powershell, Bash, Python, Typescript, Nodejs, React

**Senior Software Engineer, Wealth.com** - December/2021 - July/2022 Phoenix, Arizona - Remote

Contractor

*Wealth is a company with the mission to empower you with modern tools to create, visualize and manage your estate to ensure your family's financial future.*

- Built a contacts API using AWS AppSync, graphql and .net core, allowing users to save their personal/family members information, serving as a backbone for the overall system.
- Designed and implemented a mechanism to pre-fill information when users create new forms, using data previously saved in contacts, improving user UX.
- Used modern technologies to create great solutions, such as AWS AppSync, AWS Lambda, docker, graphql, mysql, .net core and nodejs

**Senior Full Stack Engineer, eShopWorld** - December/2019 - November/2021 - Swords, Dublin

*eShopWorld is one of the world's leading global eCommerce platforms. Its cross border eCommerce solutions help the world's best-loved brands, such as Nike and Victoria's Secret, to sell more.*

- Designed and developed Nike's checkout cart item reservation service, improving the management of reserved items and increasing sales.
- Enhanced duty drawback process for returned items, which was preventing the company from being refunded. By the time the solution was provided, the company recovered €300K.
- Built, implemented and maintained many user-friendly applications & back-end services using .Net, .Net Core, Angularjs, Angular and Azure Cloud Services, demonstrating service-oriented architecture and focus on client's needs.

**Mid Back-End Engineer, Infinite Software Limited** - August/2018 - October/2019 - Dublin, Dublin

*Infinite Software Limited is a UK and US based SaaS company focused on creating innovative solutions to real world problems using Big Data, Machine Learning, Knowledge Sharing and Analytics.*

- Built a notifications service powered by AWS AppSync and AWS Lambda, allowing threat management reports to be updated in real time and messages to be exchanged within the company's chat app.
- Trained colleagues on how to use XUnit and apply TDD during development, raising code coverage to 65% by making it part of the development cycle and improving overall software quality.
- Experimented integration with Amazon Rekognition service, which originated a separate project to apply image recognition on images and videos from social media.
- Designed, implemented and maintained back-end services using .Net Core, Postgresql and AWS, driven by delivering innovation during short schedules.

## **Mid Back-end Software Engineer - Easynvest** - *December/2017 - June/2018 - Sao Paulo, Brazil*

*Easynvest is a fast growing company ranked as the second largest independent broker in Brazil.*

- Increased code coverage on account service to 70%, enhancing overall software quality.
- Proactively fixed bugs found using Kibana charts, reducing the amount of bugs by 40%.
- Delivered account api version 2 in 3 months, boosting customer growth.
- Developed, implemented and supported back-end services using .Net Core, Sql Server, employing service-oriented architecture and attention to client's needs.

### PREVIOUS EXPERIENCES

- **Mid Full Stack Software Developer - Matera** - *January 2016 – December 2017 - Sao Paulo, Brazil*
- **Junior Full Stack Software Developer - Matera** - *November 2014 – January 2016 - Sao Paulo, Brazil*
- **Junior .Net Software Developer - Apotheke** - *August 2013 – November 2014 - Sao Paulo, Brazil*
- **Junior Cobol Software Developer - IBM** - *January 2012 – November 2012 - Sao Paulo, Brazil*
- **Intern Cobol Software Developer - Capgemini** - *January 2011 – November 2011 - Sao Paulo, Brazil*

### EDUCATION AND CERTIFICATES

**2016 - Associate in Systems Analysis and Development**, Centro Universitário Anhanguera - Brazil

**2021 - Certificate in Azure Developer Associate** - Microsoft

**2017 - Certificate in Programming in HTML5 with JavaScript and CSS3** - Microsoft

**2015 - Certificate in Programming in C#** - Microsoft

### TECHNICAL SKILLS

(10+ years): SQL.

(10+ years): C#, TDD

(10+ years): Microsoft Sql Server, Git.

(5+ years): .Net Core, JavaScript, Oracle, MicroServices, Nhibernate

(2+ years): AWS, Dapper

(2 years): Dapper

(1+ years): Entity Framework, Azure, PostgreSQL, AngularJS

### LANGUAGES

English - Fluent

Portuguese - Native