

Rafael Vasconcellos de Medeiros

Senior Software Engineer | Node.js | TypeScript | Python | Golang | REST APIs | Microservices | DDD | Hexagonal Architecture | SQL/NoSQL | AWS

SUMMARY

- Software Engineer with 10+ years of expertise in backend development, specializing in Node.js, TypeScript, Python, and Golang for scalable, secure financial platforms.
- Proficient in Secure Software Development Lifecycle (SSDLC), OWASP Top 10 mitigation, API and Cloud Security (AWS), integrating security into architecture and development.
- Experienced in microservices, RESTful and GraphQL APIs, cloud-native solutions using AWS Lambda, API Gateway, and data engineering with SQL/NoSQL databases.

TECHNICAL SKILLS

Main Technical Skills	Node.js, React, JavaScript, TypeScript, AWS
Programming Languages	JavaScript, TypeScript
JavaScript Frameworks	Node.js, React
Cloud Platforms, Services & Computing	AWS

WORK EXPERIENCE

Senior Software Developer - BTG Pactual (Financial Platforms Development and Application Security)

Duration: August 2023 - February 2026

Summary:

- Development of scalable and modern financial platforms supporting investment management, fixed income, and wealth management
- The project focuses on building secure, high-performance web and mobile applications and cloud-native solutions to support critical business operations in the financial sector

Responsibilities:

- Frontend Development using React and React Native for web and mobile applications.
- Backend Development of scalable RESTful APIs with TypeScript, Node.js, and Python.
- Cloud Architecture design using AWS services including Lambda, API Gateway, AppSync, and S3.
- Data Engineering for financial analytics and large-scale data processing.

- Integration of Application Security practices including secure coding, authentication, authorization, and OWASP guidelines.

Technologies: React, React Native, JavaScript, TypeScript, Python, Node.js, AWS (Lambda, API Gateway, AppSync, S3)

Senior Software Developer - BRQ Digital Solutions (for BTG Pactual) (Financial Platforms Development)

Duration: December 2022 - August 2023

Summary: Development of scalable and modern financial applications focusing on high-performance solutions, software quality, system architecture, and reliability for large-scale financial platforms.

Responsibilities:

- Frontend Development with React and React Native for dynamic user interfaces.
- Backend Development of RESTful and GraphQL APIs using TypeScript and Node.js.
- Cloud Architecture using AWS services such as S3, EC2, and Lambda.
- Data Management with MongoDB for scalable data models supporting complex financial logic.
- Implementation of secure coding practices and authentication/authorization mechanisms.

Technologies: React, React Native, TypeScript, Node.js, Python, AWS (S3, EC2, Lambda), MongoDB

Senior Software Developer / Tech Lead - EY (Large-scale Digital Solutions for Corteva Agriscience, Petrobras, and Enel)

Duration: August 2021 - November 2022

Summary:

- Development and leadership of scalable digital solutions for agricultural, energy, and petroleum sectors
- Projects included improving agricultural data management, crop analysis accuracy, and operational process optimization

Responsibilities:

- Backend Development of RESTful and GraphQL APIs using .NET Core.
- Frontend and Mobile Development using Angular and Ionic.
- Database design and optimization with MySQL and SQL Server.
- Implementation of microservices and cloud infrastructure for scalability and resilience.
- Technical leadership including team mentoring, code reviews, and agile practices.

Technologies: .NET Core, Angular, Ionic, MySQL, SQL Server, Microservices, Cloud Infrastructure

Senior Software Developer - D.S & ADV (Full Stack Web and Mobile Development with API Design)

Duration: January 2019 - August 2021

Summary: Development and maintenance of scalable web and mobile applications with a focus on API design, software quality, and cross-functional collaboration to support core

business processes.

Responsibilities:

- Functional Testing and Quality Assurance to ensure software reliability.
- Code Reviews and enforcement of engineering standards.
- Mentorship of junior developers and technical leadership.
- Design and development of RESTful APIs.
- Full Stack development using React.js and React Native.
- Collaboration with backend, frontend, and QA teams.

Technologies: React.js, React Native, JavaScript, TypeScript

Software Programmer - Organização Contábil Belacap (Accounting and Business Data Processing Applications)

Duration: August 2015 - January 2019

Summary: Development and maintenance of web applications and RESTful APIs supporting accounting and business processes, focusing on software quality and reliable data processing.

Responsibilities:

- Functional Testing to ensure application reliability and performance.
- API Design and Development for core accounting processes.
- Full Stack Development of web applications for data processing and visualization.
- Software planning, implementation, and debugging.

Technologies: React.js, Node.js, Vue.js, Next.js

.NET Developer - Somat Contadores (Enterprise Web Applications and API Development)

Duration: January 2015 - July 2015

Summary:

- Development of enterprise web applications and RESTful APIs using
- NET technologies to support business processes and system integrations

Responsibilities:

- Software Development using C# and VB.NET.
- API Design and Development for system integrations.
- Full Stack Development of business data processing applications.
- Functional Testing and Debugging to ensure software stability.
- Backend development and database integration using SQL Server.

Technologies: C#, VB.NET, .NET Framework, SQL Server

.NET Developer - Stone Pagamentos Integrações / Tecnologias (Enterprise-level Product Development and System Integrations)

Duration: August 2014 - October 2014

Summary:

- Development of scalable and efficient
- NET solutions including RESTful APIs and web applications to support enterprise-level payment products and system integrations

Responsibilities:

- Functional Testing to ensure reliability and performance.
- API Design and Development for enterprise products.
- Full Stack Development of data processing and visualization applications.
- Software planning, development, and debugging.

Technologies: .NET, C#, SQL Server

Desenvolvedor de Sistemas - Sa & Ferreira Imobiliária (Web Applications and API Development for Real Estate Business)

Duration: March 2014 - June 2014

Summary: Development of scalable web applications and RESTful APIs to support real estate business operations, focusing on software quality and maintainability.

Responsibilities:

- Functional Testing and Quality Assurance.
- API Design and Development for enterprise system integration.
- Full Stack Development of dynamic web applications for data analysis and presentation.
- Software planning, implementation, and debugging.

Technologies: .NET MVC 5, C#, SQL Server

EDUCATION**• Centro Universitário IBMR**

Bachelor's degree, Computer Technology/Computer Systems Technology
October 2022 - October 2025

• Universidade Estácio de Sá

Tecnólogo, Análise e Desenvolvimento de Sistemas
2013 - 2016