

Gabriel Mesquita Oliveira

Senior Software Engineer & Tech Lead

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 [LinkedIn](#) |  [GitHub](#) |  [Portfolio](#)

Professional Summary

Senior Full Stack Developer with **5+ years** building scalable applications from legacy mainframe systems to modern cloud solutions. Specialized in **banking & fintech** with proven expertise leading technical teams and modernizing mission-critical systems serving **millions of users daily**.

Core Expertise: Legacy System Modernization • Microservices Architecture • Team Leadership • Banking Applications

Work Experience

Full Stack Developer | *Caixa Econômica Federal*

Jan 2025 - Present

Mission-critical banking systems developer in the Payment Methods sector, Credit Cards community, working across multiple agile squads. Specializing in legacy system modernization by migrating COBOL mainframe applications to Java Quarkus microservices while maintaining and developing Angular applications for internal branch operations. Currently leading the development of new branch agency customer service systems and debt collection platforms, balancing 50% legacy modernization with 50% modern application development.

Key Responsibilities:

- Migrate mission-critical COBOL banking systems to modern Java Quarkus microservices architecture
- Develop and maintain internal Angular applications for branch agency operations
- Build and integrate APIs for payment systems, debt collection, and renegotiation platforms
- Collaborate with business analysts and stakeholders in agile planning and code review processes
- Support branch agency systems and credit card processing operations serving millions of daily users

Key Achievements:

- **System Reliability:** Maintained 99.9% uptime on applications processing millions of daily transactions
- **Performance Excellence:** Improved batch processing efficiency by 40% through COBOL optimization and DB2 tuning
- **Modern Integration:** Successfully connected legacy mainframe systems with Angular/Java microservices
- **Mobile Innovation:** Developed secure Android banking app with biometric authentication and SSL pinning
- **DevOps Leadership:** Reduced deployment time by 60% implementing CI/CD across multi-platform applications

Tech Stack: COBOL, Angular, Quarkus, Kotlin, DB2, Android Security

Full Stack Developer | *Qintess*

Aug 2024 - Dec 2024

Full stack developer in a 10-member development team focused on creating and enhancing internal enterprise frameworks using Java, with diverse technology stack including Python, Node.js, React, and Docker. Specialized in developing custom modules and solutions based on company framework requirements.

Key Responsibilities:

- Develop custom modules for Qintess internal enterprise frameworks using Java Spring Boot
- Build specialized solutions including multi-threaded web crawlers/scrapers for data extraction
- Create and maintain Angular frontend applications integrated with Java backend services
- Collaborate with development team on diverse projects spanning multiple technology stacks
- Provide technical guidance and support to junior developers when needed
- Work on framework architecture design and hands-on development implementation

Key Achievements:

- **Framework Development:** Created reusable internal frameworks adopted by 8+ development teams, improving code standardization and reducing development time by 30%
- **API Architecture:** Designed and implemented RESTful microservices serving 100K+ requests daily with 99.5% availability
- **Technical Innovation:** Developed multi-threaded web crawler/scrapper module enhancing data processing capabilities
- **Quality Assurance:** Implemented comprehensive testing strategies achieving 90%+ code coverage across all projects

Tech Stack: Java Spring Boot, Angular, Python, Node.js, React, Docker, RESTful APIs, Microservices

Full Stack Developer | *Matriz One*

Jan 2023 - Mar 2024

Full stack developer working on two main enterprise platforms: Flex Ocupacional, a nationwide occupational health and safety software, and MatrizOne EAD, an e-learning platform for corporate training. Specialized in Brazilian government API integrations and containerized solutions.

Key Responsibilities:

- Develop and maintain Flex Ocupacional platform serving occupational health management across Brazil
- Build extensive integrations with Brazilian government APIs (eSocial, ETV) for medical certificate validation and workplace accident reporting
- Create and enhance MatrizOne EAD platform enabling corporate clients to train their employees through online courses
- Design and implement RESTful APIs and microservices using PHP Laravel and Node.js Express
- Develop responsive frontend interfaces using Vue.js and React with MySQL database integration
- Implement Docker containerization for improved deployment efficiency and system reliability

Key Achievements:

- **Platform Leadership:** Spearheaded development of occupational health management system serving 50+ enterprise clients in workplace safety compliance
- **Government Integration:** Successfully integrated with Brazilian government APIs (eSocial, ETV) ensuring 100% compliance for automated reporting
- **Containerization:** Architected Docker-based infrastructure reducing deployment time by 70% and improving system reliability
- **End-to-End Solutions:** Delivered complete solutions from database design to user experience, resulting in 95% client satisfaction rate

Tech Stack: PHP/Laravel, Node.js/Express, Vue.js, React, Docker, MySQL, Brazilian Government APIs, Jest

Frontend Engineer | UI/UX Designer | *Syscoin Space*

Jan 2022 - Dec 2022

Frontend engineer, UI/UX designer, and web designer specializing in high-performance e-commerce development and SEO optimization across multiple platforms. Certified in major e-commerce platforms including WooCommerce, Jet, Linx, Tray, VTEX, Magento, and Shopify, working with clients ranging from high-traffic Instagram stores to luxury jewelry retailers.

Key Responsibilities:

- Develop and optimize SEO strategies for client e-commerce websites across multiple platforms
- Build high-performance e-commerce solutions using PHP, JavaScript, React, Node.js, Blade, and Twig
- Design responsive UI/UX interfaces optimized for conversion and mobile performance
- Customize and develop solutions for WooCommerce, Jet, Linx, Tray, VTEX, Magento, and Shopify platforms
- Implement Core Web Vitals optimization and performance enhancement strategies
- Create custom e-commerce themes and functionality based on client business requirements

Key Achievements:

- **High-Traffic E-commerce:** Developed pirulitoloja.com.br on Jet platform for client with 3M+ Instagram followers, achieving exceptional performance metrics
- **Luxury Market Success:** Built pedrart.com.br, the exclusive Rolex retailer website in Brasília, focusing on premium user experience
- **Performance Excellence:** Improved page load speeds by 50% and mobile conversion rates by 25% across 20+ online stores
- **SEO Leadership:** Implemented Core Web Vitals optimization resulting in average 40% improvement in search rankings across client portfolio

Tech Stack: PHP, JavaScript, React, Node.js, Blade, Twig, WooCommerce, Shopify, VTEX, Magento, Jet, Linx, Tray

PHP WordPress Developer | Freelancer | *GetNinjas*

Jan 2020 - Jan 2022

Independent freelance developer specializing in custom WordPress development and institutional website creation. Working through the GetNinjas platform to deliver bespoke e-commerce solutions and corporate websites with secure payment integrations and PCI compliance standards.

Key Responsibilities:

- Develop custom WordPress websites and institutional sites for diverse clients across multiple industries
- Build bespoke e-commerce platforms from scratch with complete payment gateway integrations
- Implement secure payment processing systems ensuring PCI compliance across all projects
- Create custom WordPress themes and plugins tailored to specific client business requirements
- Customize and enhance existing e-commerce platforms including WooCommerce, Magento, Shopify, and OpenCart
- Provide ongoing maintenance and technical support for client websites and e-commerce solutions

Key Achievements:

- **Custom Development:** Built 15+ bespoke e-commerce platforms from scratch with complete payment integration
- **Security Excellence:** Achieved PCI compliance across all projects with zero security incidents over 2 years
- **Multi-Platform Expertise:** Delivered customizations for WooCommerce, Magento, Shopify, and OpenCart platforms
- **Client Satisfaction:** Maintained high client retention rate through reliable delivery and ongoing support

Tech Stack: PHP, JavaScript, React, Node.js, WordPress, WooCommerce, Payment Gateways, E-commerce Platforms

Technical Expertise

Programming Languages

Java • JavaScript • TypeScript • COBOL • Kotlin • PHP • Python • SQL

Frontend Development

React.js • Angular • Vue.js • Next.js • Jetpack Compose • PWA • Tailwind CSS

Backend & APIs

Spring Boot • Quarkus • Node.js • Laravel • RESTful APIs • GraphQL • Microservices

Mobile Development

Android (Kotlin) • MVVM Architecture • Security Implementation • Biometric Auth

Database & Storage

MySQL • PostgreSQL • MongoDB • DB2 • Redis • Oracle • Query Optimization

Cloud & DevOps

AWS (EC2, S3, RDS, Lambda) • Docker • Kubernetes • CI/CD • Jenkins • Terraform

Mainframe Technologies

COBOL • TSO/ISPF • Endevor • CICS • Batch Processing • Legacy System Integration

Leadership & Impact

Team Leadership Experience

- **Mentorship:** Successfully mentored 4+ junior developers in modern development practices
- **Standards Implementation:** Established coding standards adopted across multiple development teams
- **Technical Decision Making:** Led architectural decisions for mission-critical banking applications
- **Cross-functional Collaboration:** Coordinated with business analysts, QA, and DevOps teams in agile environments

Key Projects & Achievements

- **Legacy Modernization:** Led modernization of mainframe COBOL systems serving millions of users
 - **Framework Development:** Created reusable internal frameworks reducing development time by 30%
 - **Mobile Banking Innovation:** Developed secure Android banking solutions with advanced security features
 - **Government Compliance:** Delivered 100% compliant systems for Brazilian regulatory requirements
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Education & Certifications

Education

Bachelor's Degree in Systems Analysis | *Faculdade Brasília* | Expected Dec 2025

Technical Web Development | *SENAI* | Dec 2020

Certifications

Banking & Enterprise Development (2025)

- **CAIXAVERSO | Back-end Java Developer | Level III** - Ada Tech (11h)
- **Software Architecture | Caixa** - Ada Tech (12h)
- **Back-end in Java | Caixa** - Ada Tech (13h)
- **Front-end in JavaScript | Caixa** - Ada Tech (16h)
- **DevOps | Caixa** - Ada Tech (14h)
- **IT Onboarding** - Ada Tech (162h)

IBM Mainframe Expertise (2025)

- **IBM Mainframe Developer Professional Certificate** - Coursera
- **IBM z/OS Mainframe Practitioner Professional Certificate** - Coursera
- **COBOL Programming with VSCode** - Coursera

Modern Frontend & Full Stack (2023-2025)

- **Angular 17 Specialization** - Coursera (3 courses)
- **Santander Bootcamp 2023 - Fullstack Java+Angular** - DIO (115h)
- **Santander 2024 - Backend with Java** - DIO (87h)
- **Claro - Java with Spring Boot** - DIO (75h)
- **JavaScript Evolution Bootcamp** - DIO (104h)

Advanced Development & Architecture (2025)

- **System Design** - Ada Tech (4h)
- **Clean Architecture** - Ada Tech (3h)
- **Java Update: from 8 to 21** - Ada Tech (2h)
- **Oracle Complete Program** - Alura (332h, 7 formations)

Security & AI Development (2024-2025)

- **Security Fundamentals and Secure Development** - Ada Tech (8h)
- **Information Security** - Ada Tech (3h)
- **Python AI Backend Developer** - DIO (67h)
- **Nexa Bootcamp - Machine Learning for Beginners on AWS** - DIO (10h)

Web Development Fundamentals

- **WordPress Development** - Udemy (24h)
- **Master Laravel 11** - Udemy (30h)
- **Complete PHP Web Development** - Udemy (115h)
- **Complete Modern Web Course with JavaScript** - Udemy (90h)

Personal Projects

Open Source Contributions

- **COBOL-Modern-Bridge** - Library for integrating COBOL with modern Java applications
- **Brazilian-Gov-APIs** - SDK for Brazilian government API integrations (eSocial, ETV)
- **Banking-Security-Utils** - Android security utilities for financial applications

View all projects: [GitHub](#)

Languages & Additional Skills

Languages: Portuguese (Native) • English (Advanced Professional)

Professional Strengths:

- **Technical Leadership:** Proven ability to lead teams and establish development standards
- **Problem Solving:** Expert in bridging legacy systems with modern architecture
- **Adaptability:** Quick learner across diverse technology stacks and business domains
- **Communication:** Strong collaboration skills in agile, cross-functional environments