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## Top Skills

Requirements Analysis  
Software Systems Engineering  
DevOps

## Languages

English (Professional Working)  
Portuguese (Native or Bilingual)

# Gabriel Fernandez

Senior Software Engineer at Valor distributions  
Toronto, Ontario, Canada

## Summary

With over a decade of experience as a software engineer, I have advanced from hands-on development to leading technical teams and delivering complex, high-impact solutions. My career spans diverse industries and countries, where I've tackled unique challenges and built scalable, secure, and innovative software systems.

I've worked across the globe, leading and contributing to projects that required adaptability to any technology stack or programming language. My expertise includes full-stack development, API design, cloud-based solutions, and mentoring teams to achieve their best.

Highlights include transforming IT teams, resolving critical system issues, implementing CI/CD pipelines, and integrating advanced e-commerce, social media, and data-driven solutions. My ability to work with legacy systems and cutting-edge technologies showcases my versatility and problem-solving prowess.

I'm passionate about delivering quality software and fostering collaboration, creating sustainable systems that drive business success.

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## Experience

### Valor Distributions

5 years 2 months

#### Senior Software Engineer - Tech Lead

January 2022 - January 2025 (3 years 1 month)

Markham, Ontario, Canada

#### Key Responsibilities

Tackling the most complex tasks, even those that experienced developers find challenging.

Mentored team members on clean code, database modelling, and design patterns.

Conducting detailed GitHub code reviews to ensure quality standards.

Contributing insights on technologies and features in cross-functional meetings.

Leading the transformation of the IT team into a more structured and professional unit by introducing specialized roles (DevOps, QA, requirement analysis) and assisting in recruitment.

### Achievements

Trained junior developers to become independent coders by teaching problem-solving and coding best practices.

Resolved critical Shopify integration issues, ensuring smooth business operations.

Automated industrial printer workflows, simplifying label printing for vape bottles.

Implemented CI/CD pipelines with GitHub Actions and AWS, boosting deployment efficiency.

Standardized team coding practices and unified the tech stack for scalability.

### Technologies and Tools

Languages: TypeScript, JavaScript, Kotlin, PHP8, GraphQL, Shell Script, PL/pgSQL.

Mobile Development: Android (MVVM, Retrofit, Coroutines, Timber, Ktlint, Koin);

Frameworks & Libraries: Node.js, React.js, NestJS, Remix, Vue.js, Express, Vitest, Turbo, Prisma, Yup, Playwright, Radix-UI, Shopify-CLI, Hydrogen, Xero-OAuth, Date-fns, Zod, ESLint, PostCSS, TailwindCSS, Polaris, Laravel, Conform, Redux, Axios, Sass, Husky.

CMS/Ecommerce Platforms: WordPress, Shopify, Medusa.js.

Databases: Firebase, Redis, MongoDB, MySQL, PostgreSQL.

Web Servers: Apache, Nginx.

Other Tools & Technologies: Docker, Dev Containers, e2e testing, unit testing, PEST, WebSocket, AWS (S3, Kubernetes, EKS, Terraform), Pusher, Cursor, Copilot, CI/CD with GitHub Actions.

### Senior Software Engineer

December 2019 - December 2021 (2 years 1 month)

Markham, Ontario, Canada

## Youtaf Sarl

Senior Software Engineer - Team Lead

January 2019 - November 2019 (11 months)

Switzerland

As a Senior Software Developer and Team Leader at Youtaf Sarl, I played a pivotal role in enhancing the company's web platform, a service marketplace designed to simplify interactions between customers and workers while minimizing fees and complexities.

### Key Contributions:

- Payment Gateway Integrations: Implemented seamless connections with PayPal, PagSeguro, and PagueCerto, ensuring secure, efficient, and scalable financial transactions.
- Cross-Platform Optimization: Resolved critical interface issues to ensure compatibility across browsers and devices, delivering a consistent and intuitive user experience.
- Feature Development: Designed and deployed new features to enhance usability and engagement, aligning with user needs and business objectives.
- Team Leadership: Led a team of developers, mentoring them in advanced coding practices, troubleshooting complex challenges, and fostering a collaborative environment.
- Performance & Scalability: Improved deployment pipelines using scalable, containerized solutions, optimized server configurations, and reduced page load times through performance tuning and efficient asset management.

### Technologies and Tools:

- Languages: JavaScript, PHP.
- Frameworks & Libraries: Laravel, VueJS, Passport for authentication.
- Databases: MySQL for designing and optimizing relational data structures.
- Web Servers: Apache, configured for high availability and performance.
- APIs and Integration: Developed RESTful and SOAP APIs using XML and JSON for smooth data exchange.
- Custom Development: Created YouPay, a library for PagueCerto integration, enabling faster implementation and improved reliability.

By completing my one-year contract ahead of schedule, I delivered a robust, scalable, and user-friendly platform that positioned Youtaf for sustained growth and success.

## Solutis Tecnologias

6 years 6 months

### Senior System Analyst - Team Lead

August 2017 - January 2019 (1 year 6 months)

Salvador, Bahia, Brazil

As a Senior System Analyst and Team Lead, I successfully led multiple projects from concept to delivery, ensuring high-quality outcomes. My role involved strategic planning, architecture definition, team management, and fostering professional growth among developers. I excelled in creating scalable solutions, mentoring talent, and driving technical innovation.

#### Key Responsibilities:

- Team Leadership: Managed and mentored a team of up to six developers, conducting training, performance evaluations, and code reviews to ensure team growth and efficiency.
- Project Management: Oversaw project planning, follow-up, and requirements gathering to ensure successful project delivery on time and within scope.
- Architecture and Design: Defined system structures and engineering approaches to deliver scalable and maintainable solutions.

#### Key Achievements:

- Talent Development: Trained interns to become junior developers and guided junior developers to senior-level proficiency, creating a highly skilled and self-sufficient team.
- Data Integration and Dashboards:
  - \* Built a comprehensive dashboard that unified data from six disparate systems, simplifying reporting and government compliance.
  - \* Designed and implemented scalable microservices for data integration, leveraging advanced database programming techniques.
  - \* Developed automation solutions for systems without APIs, enabling efficient data handling and integration.
- Innovative Solutions: Designed custom plugins for GLPI to enhance ticket and bug tracking and built a company portal with WordPress.

## Technical Expertise:

### - Databases:

Database Modeling (EER)

Advanced database programming: PL/SQL, PL/pgSQL, Transact-SQL, SQL (MySQL)

Power BI for data visualization

### - Programming Technologies:

Java: JSF, JBoss, CDI, Hibernate, Maven

PHP: CodeIgniter, Laravel, Lumen, CakePHP, WordPress

ChatBot Development: IBM Watson, NodeJS, Restify, MongoDB, Cloudant, ReactJS

## System Analyst - Tech Lead

August 2012 - July 2017 (5 years)

Salvador, Bahia, Brazil

## eCGlobal Solutions

1 year 9 months

## Senior Software Engineer - Tech Lead

November 2011 - September 2012 (11 months)

Salvador, Bahia, Brazil

I began my journey as a Software Engineer, progressing to Senior Software Engineer and eventually stepping into the role of Tech Lead. In this capacity, I supported team management and collaborated closely with the manager to ensure project success.

Initially, I worked on a company-developed social network, focusing on bug fixes and feature enhancements. Recognized for my contributions, I was entrusted with restructuring the project using a modern tech stack. As a Senior Software Engineer, I emphasized speed, security, and user experience while ensuring seamless integration with key company systems. These included:

- A reporting and data engineering system for customer data sales.
- A rewards and points exchange system with strict security protocols to prevent unauthorized product distribution.
- Metric dashboards for directors and the statistics team, designed for easy integration into their software.

I also integrated the social network with a survey platform (custom systems and SurveyMonkey), critical for the company's data collection strategy. Additionally, I implemented advanced integrations with platforms such as Facebook, Twitter, Google Maps, LinkedIn, YouTube, Google+, Gmail, Hotmail, and various e-commerce systems, enhancing the platform's reach and functionality.

This role required expertise in full-stack development, web services, and API integrations. It also allowed me to refine my leadership skills, enabling me to guide teams effectively while delivering innovative software solutions.

#### Technologies & Skills:

C#, PHP, CodeIgniter, Elgg, Javascript, SOAP API, REST API, Linux, Apache, Nginx, MySQL, PostgreSQL, SVN, Social Media Integration, Data Mining, SEO, Web Services API

This experience strengthened my ability to lead projects, drive technical innovation, and build scalable, secure, and user-focused solutions.

#### Software Engineer

January 2011 - October 2011 (10 months)

Salvador, Bahia, Brazil

#### TOTVS

##### System Analyst

June 2010 - December 2010 (7 months)

Salvador, Bahia, Brazil

I joined as a Web Software Developer to lead the recovery of a critical project that had been delayed. The project focused on delivering a Business Intelligence (BI) solution for the Sales and Finance departments. This solution integrated seamlessly with Crystal Reports and an Oracle database. Originally developed in PHP, I spearheaded its successful transition to C#, ensuring timely delivery, which earned a public commendation from the Business Director. My performance resulted in a promotion to System Analyst within just one month.

#### Key Responsibilities:

##### - Business Intelligence Development

Delivered a robust BI solution integrated with Crystal Reports and Oracle databases, transitioning the codebase from PHP to C#.

Optimized performance, enhanced security, and improved user experience for key stakeholders.

#### - ERP System Maintenance

Maintained and improved the company's Retail ERP system, working with legacy and modern technologies.

Tasks included database programming, quality assurance, testing, code review, and pair programming.

Supported modules written in VB6, Cobol, .NET, and Oracle, ensuring seamless operation and reliability.

#### Key Achievements:

- Rapid Integration and Impact: Within five months, acted as a cross-functional "wildcard," resolving critical issues across multiple ERP modules managed by different teams.
- Technical Adaptability: Successfully adapted to diverse stacks and languages, including PHP, C#, Oracle database, VB6, Cobol, and .NET, contributing to significant team efficiency and innovation.
- Leadership and Recognition: Delivered a delayed project on time and to a high standard, receiving recognition from leadership for outstanding contributions.

#### Technologies and Skills:

Programming Languages: C#, PHP, VB6, Cobol

Databases: Oracle, MySQL, PostgreSQL

Tools and Frameworks: Crystal Reports, .NET

Skills: Performance optimization, system integration, database programming, problem-solving, and collaboration across teams.

#### Avansys Tecnologia

##### Software Developer

November 2009 - June 2010 (8 months)

Salvador, Bahia, Brazil

As a Software Developer for the Secretariat of Education, I developed a custom web framework using PHP, ExtJS, jQuery, Backbone.js, QUnit, Memcached, and other technologies like JavaScript, SASS/SCSS (responsive design), and XML APIs. This framework streamlined the development of internal systems, enhancing their scalability and usability.

A key accomplishment was reworking an essential system named Educar. I significantly improved its speed, security, stability, and reliability, which resulted in reduced bugs and increased stakeholder satisfaction.

Collaborating with a Senior System Analyst with over 20 years of experience, I gained invaluable mentorship that expanded my technical knowledge and professional growth. I also honed my ability to communicate effectively with diverse stakeholders, translating technical concepts into clear, non-technical language. This skill proved essential in understanding customer needs and fostering patience during project discussions.

I took the lead in implementing a robust testing and deployment pipeline. This included:

- Writing unit and end-to-end (e2e) tests using Jasmine to ensure code reliability.

- Establishing continuous delivery (CD) and continuous integration (CI) pipelines using Jenkins and manual deployment scripts to automate deployment where possible.

- Integrating a custom script for code quality analysis, detecting flaws, and identifying potential security vulnerabilities.

- Implementing automated checks for dependency versions and manual updates as needed.

This role taught me the importance of testing, automation, and quality assurance in building secure and maintainable software. The experience solidified my foundation in modern development practices and set the stage for my growth in advanced software engineering.

Technologies: PHP, ExtJS, jQuery, Backbone.js, Jasmine, Memcached, JavaScript, SASS/SCSS, XML APIs, Jenkins, CD/CI pipelines.

## ProExperts Solucoes em TI Ltda

### Software Developer

March 2009 - November 2009 (9 months)

Salvador, Bahia, Brazil

As a Software Developer, I played a critical role in fixing, launching, maintaining, and enhancing a commercial automation portal for the textile industry. The system was an ERP solution that managed the entire process of clothing and material fabrication, inventory, and assembly, powered by PHP



(using a proprietary framework), JavaScript with jQuery, and an Oracle SQL database.

#### Key Achievements:

- Problem-Solving: On my first day, I resolved a critical, long-standing issue that had delayed the system's launch for months. This breakthrough set the stage for the portal's successful deployment.

- Process and Tooling Improvements:

Introduced GitHub for version control and documentation.

Implemented automated and unit testing to enhance code quality and reliability.

Established documentation standards to streamline development and maintenance.

- System Launch:

Managed and delivered a successful system launch that significantly increased company revenue, enabling expansion into a larger office and the hiring of new staff.

- Project Leadership:

Led the integration of the portal with a desktop application, managing the project end-to-end.

This included: Project planning, setting deadlines, and monitoring task progress.

Collaborating directly with the company owner, director, and sales teams to gather requirements and align project goals.

Overseeing user experience design, gathering feedback, and ensuring quality assurance through client visits.

Migrated the entire system to a widely used open-source framework, improving performance, scalability, and maintainability while addressing security flaws and technical debt from the prior proprietary framework.

This intense and fast-paced experience demanded constant learning and adaptability, allowing me to grow significantly as a developer, leader, and problem-solver.

## .COMPOS

Junior Software Developer

April 2008 - February 2009 (11 months)

Salvador, Bahia, Brazil

As a Junior Software Developer, I gained extensive experience in web development, contributing to the creation of over 100 websites, systems, and e-commerce solutions. Most projects involved transforming .PSD (Photoshop) designs provided by the design team into fully functional web interfaces using HTML, CSS, and JavaScript, seamlessly integrated with the company's custom framework.

#### Key Contributions and Skills:

##### - Web Development:

Converted Photoshop designs into responsive and interactive websites using HTML, CSS, and JavaScript.

Integrated layouts with the company's custom PHP-based framework using tools like EXTJS, SMARTY, ADODB, and jQuery.

Worked with PostgreSQL databases to design and implement data-driven applications.

##### - Company Framework Expertise:

Gained in-depth knowledge of a proprietary CMS-like framework for building and hosting websites, similar to WordPress.

Supported the creation of custom-made solutions for diverse industries, including government systems, advancing my understanding of database programming, project structure, and complex system design.

##### - Mentorship and Leadership:

Guided new team members, sharing expertise in transforming layouts into functional web applications and navigating the framework.

##### - Work Environment:

Despite a high-pressure environment with demanding management, I remained focused, productive, and dedicated, consistently delivering high-quality results. My performance earned recognition, allowing me to support colleagues and work on more complex projects.

##### - Academic Integration:

Balancing full-time work with university studies in Computer Engineering, I utilized this role to gain practical skills, fund my education, and solidify my foundation in web development, database management, and software design.

Egba - Empresa Gráfica da Bahia  
Traineeship dev  
April 2007 - April 2008 (1 year 1 month)  
Salvador, Bahia, Brazil

During my traineeship at EGBA, I gained foundational experience in software and web development, working on maintaining and developing new systems using ASP, PHP, and pure JavaScript, with SQL Server as the primary database. Under the guidance of a senior developer for frontend tasks and my direct supervisor for backend and database work, I honed both my technical skills and professional coding practices through code reviews and continuous learning.

#### Key Contributions and Skills Acquired:

- Frontend Development: Expanded my knowledge of CSS, which was relatively new at the time, to enhance system interfaces and usability.
- Backend Development: Learned and implemented backend development using ASP and later transitioned to PHP, understanding core concepts of server-side programming.
- Adobe Flash & ActionScript: Acquired expertise in ActionScript (AS) for Adobe Flash, assisting in the creation and improvement of the official Federal Register, including the interactive "page flip" feature.
- Best Practices: Mastered Object-Oriented Programming (OOP) basics and core principles like the DRY (Don't Repeat Yourself) pattern. Understood and applied caching strategies for efficient web applications.
- Code Reviews: Developed the discipline to write clean, maintainable, and professional code through a rigorous review process.
- Problem-Solving: Tackled challenging tasks while learning to balance technical and business requirements, strengthening my ability to deliver high-quality solutions.

This experience provided me with the essential skills to become a professional developer, building a strong foundation in frontend, backend, and database management while cultivating a deeper understanding of software development principles and best practices.

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## Education

Unijorge

Bachelor of Technology - BTech, Computer Science and  
Engineering · (September 2015 - February 2016)