

Joubert Guimarães de Assis

Senior Software Engineer & DevOps

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SUMMARY

Seasoned Senior Software Engineer and DevOps specialist with 15+ years of experience in backend development, cloud infrastructure, and financial systems, including banking and payments. Committed to secure coding practices, ensuring robustness in critical systems. Extensive experience in optimizing systems and DevOps workflows across startups and enterprises. Open-source evangelist, speaker, and mentor, dedicated to continuous learning and knowledge sharing.

SKILLS

Proficient: PHP, Golang, AWS, Heroku, Docker, MySQL, MariaDB, SQLite, Bash scripting, Symfony, Slim, gRPC, Linux, Terraform, Clean code, Clean architecture, Microservices, Software Testing, System Design, Mentoring.

Intermediate: Node.js, Typescript, JavaScript, React, React Native, jQuery, HTML5, CSS3, Observability, PostgreSQL, MongoDB, Crawling, Redis, Laravel, GCP, Bootstrap, Tailwind, Event driven, Kafka, Networking, GraphQL.

Beginner: Python, Rust, Kubernetes, Flutter, Azure, Prometheus, Grafana.

PROFESSIONAL EXPERIENCE

PepsiCo as CI&T – Belo Horizonte, Brazil – Remote

May 2024 – Present

Senior Software Engineer

- Developed and optimized features for APIs, back-office, mobile, and web apps serving millions of users across PepsiCo's Latin American markets, ensuring global alignment and support.
- Implemented a queue-based solution to optimize order processing, reducing issues by approximately 81%.
- Assisted multidisciplinary and multicultural colleagues with best coding practices, setting up development environments, deployments, debugging in local and QA, container engines, PHP technologies, pipelines, and more.
- Configured, managed, and provided support for back-office systems used by the QA team.
- Supported the onboarding of new team members from CI&T into PepsiCo's projects.
- Proposed and contributed to refactoring and unit testing, reducing technical debt by approximately 28% to 35%.

Key Technologies and Tools: PHP, Symfony, Pimcore, React, React Native, Node.js, Podman, Rancher, MySQL.

4Yousee – Belo Horizonte, Brazil – Remote

Aug 2023 – Aug 2024

Senior Software Engineer

- Established and trained teams on development standards to improve delivery efficiency and quality.
- Analyzed, studied, and presented architectural solutions, improvements, and refactorings for the legacy system.
- Managed and supported AWS cloud resources, optimizing usage and implementing Infrastructure as Code (IaC).
- Led the implementation and guided the adoption of SSO, improving product integration and user experience.
- Assisted in the analysis and interviewing of candidates for technology positions within the company.

Key Technologies and Tools: PHP, Symfony, Node.js, Docker, MySQL, MongoDB, AWS, Terraform, Keycloak.

Edvisor – British Columbia, Canada – Remote

Apr 2022 – Mar 2023

DevOps & Senior Software Engineer

- Automated web crawling with Puppeteer in AWS Lambda, reducing insurance business flow processing time by 80% for workflows lacking API integration.
- Optimized business rules for research, applying filters and facets in course and educational institution searches.
- Implemented error tracking and reporting solutions with Sentry for proactive issue identification and resolution.

- Designed and implemented a GraphQL Federation project using subgraphs in a microservices architecture.
- Created scripts to automate database restoration across different environments.
- Enhanced Infrastructure as Code (IaC) automation flows for improved deployment efficiency.
- Conducted code reviews and mentored junior team members to enhance collaboration and knowledge sharing.

Key Technologies and Tools: Typescript, JavaScript, NestJS, Knex, Sequelize, GraphQL, Apollo Federation, Puppeteer, Serverless, Node.js, Meteor, AWS, GCP, CircleCI, Datadog, Sentry, GitHub Actions, MongoDB, Metabase.

Medportal – Rio de Janeiro, Brazil – Remote

Mar 2022 – Sep 2022

Consulting Senior Software Engineer (part time)

- Integrated with AWS Cognito to provide authentication and authorization flows in restricted API routes.
- Implemented a new account registration flow with the SAGA pattern, fixing user registration issues.
- Developed a configurable forgot password flow, enhancing user autonomy.
- Enhanced route validations in user management.

Key Technologies and Tools: Golang, AWS, Postgres, Memcached, Sendgrid, jQuery, HTML, CSS, Fomantic-UI.

Unico IDtech – São Paulo, Brazil – Remote

Oct 2021 – Mar 2022

Senior Software Engineer

- Contributed to the development of a biometric ecosystem supporting liveness detection and fraud prevention, ensuring high accuracy and security.
- Collaborated with the squad to design and implement microservices architectures, enabling scalable and efficient biometric processing.
- Integrated advanced facial recognition and anti-fraud mechanisms, enhancing identity verification processes.
- Managed and maintained machine learning models used in the liveness detection engine, ensuring continuous improvement and accuracy.
- Developed APIs and backend services to facilitate seamless communication between biometric engines and client applications.
- Implemented observability solutions, improving system monitoring, logging, and performance tracking.
- Optimized CI/CD pipelines and cloud infrastructure, ensuring high availability and rapid deployments.

Key Technologies and Tools: Python, Golang, Postgres, Docker, ContainerD, Nerdctl, Kubernetes, GCP, UTM, Bash scripting, New Relic, Swagger.

PicPay – Vitória, Brazil – Remote

Aug 2020 – Sep 2021

Senior Software Engineer

- Redesigned the partner onboarding architecture, removing individual microservices and simplifying integration.
- Implemented a configuration-driven system, allowing dynamic partner integrations without requiring code changes.
- Developed a microservice to process configurations and generate JSON for dynamic mobile UI rendering.
- Introduced Golang with goroutines, improving performance and reducing execution time by 63%.
- Enabled the back-office team to onboard partners independently, significantly reducing the integration queue.
- Led technical interviews, assessed coding challenges, and provided evaluations to HR.
- Mentored colleagues on effective interviews, focusing on evaluation, questions, and candidate experience.

Key Technologies and Tools: Golang, PHP, Laravel, Symfony, Docker, Docker compose, Beanstalkd, Minio, MongoDB, Redis, MySQL, Kubernetes, AWS EC2/S3/Kinesis, Bash scripting, New Relic, Swagger.

M4U – Rio de Janeiro, Brazil – Remote

Mar 2020 – Jul 2020

Senior Developer

- Managed financial transactions from the Cielo payment processor, ensuring secure and efficient processing.
- Developed and maintained systems to handle POS terminal operations for commercial establishments.
- Implemented tax and fee calculations for different transaction types, including debit, credit, installments, anticipation, reconciliation, and settlement processes.
- Maintained and enhanced a customer web portal, enabling users to view transaction history, monitor processed and pending transactions, and check available balance for transfers.

Key Technologies and Tools: Golang, PHP, JavaScript, React, Redux, SASS/SCSS, Docker, NATS, PostgreSQL, Redis, Kubernetes, AWS EC2/VPC/S3/EKS/Kinesis/Lambda, Bash scripting, New Relic, Grafana, Kibana.

Sympla – Belo Horizonte, Brazil

Nov 2018 – Feb 2020

Senior Software Engineer

- Led the development of a Proof of Concept (PoC) for a Kubernetes cluster, ensuring a vendor-agnostic solution to prevent cloud provider lock-in.
- Researched, designed, and implemented a Kubernetes architecture that allowed seamless multi-cloud and on-premise deployment.
- Designed and developed a new ticket sales architecture, optimizing transaction flow and enhancing system reliability.
- Led the payment business flow, implementing payment splitting, ensuring correct fund distribution among multiple stakeholders.
- Integrated internal and external anti-fraud solutions, dynamically selecting the appropriate payment gateway based on risk assessment.
- Implemented a robust payment processing system, significantly reducing errors and failures in transactions.

Key Technologies and Tools: AWS EC2/VPC/S3/ELB/EFS/Kinesis/Lambda/Route53, Kubernetes, PHP 5.6/7.1/7.3, Symfony, Slim, GraphQL, Docker, Terraform, Bash scripting, Golang, Helm, Kops, Kong, Istio, Calico, Minikube, OpenStack.

conta.MOBI – Belo Horizonte, Brazil

Jan 2017 – Nov 2018

Software Engineer

- Developed and maintained a financial ecosystem for micro-entrepreneurs, enabling multiple payment solutions.
- Integrated card readers with mobile devices, allowing seamless transactions via smartphones.
- Implemented various payment methods, including billets (boletos), payment links, and direct transfers, providing customers with flexible options to receive payments.
- Led the creation of cash-in and cash-out operations using the Brazilian Post Office, enabling nationwide financial access, including for users in remote areas without traditional banking infrastructure.
- Managed DevOps operations, including CI/CD pipelines, AWS cloud infrastructure, and cron jobs, ensuring system reliability and automation.
- Researched and implemented new technologies and tools to improve microservices management, enhancing system scalability, observability, and performance.
- Optimized payment processing workflows, improving reliability and transaction success rates.
- Collaborated with business and technical teams to enhance system scalability and user experience.

Key Technologies and Tools: PHP, MySQL, SQLite, Symfony, NodeJS, NPM, SASS, JavaScript, Css, Linux, Git, Nginx, Scrum, Docker, RabbitMQ, RPC, PHPStorm, XenServer, AWS, Jira, Slack, Electron, Semantic UI, Bootstrap, Rundeck, OAuth2.

Vector Internet Business – Belo Horizonte, Brazil

Feb 2014 – Jan 2017

IT Manager

- Managed all IT operations, overseeing infrastructure, development, production, and support teams to ensure smooth business operations.
- Led and coordinated cross-functional teams, aligning technical strategies with business objectives.
- Oversaw system stability, performance, and security, ensuring high availability and compliance with industry standards.
- Led the elaboration and development of new services and enhancements to existing systems, improving efficiency and expanding business capabilities.
- Participated in strategic meetings with Sales, Marketing, Finance, and the Board of Directors, providing technical insights and aligning IT with business goals.
- Conducted meetings and training sessions with clients, ensuring proper adoption and effective use of company products.
- Implemented best practices in development, incident management, and IT support, improving efficiency and response times.
- Optimized IT infrastructure, including networking, cloud services, hardware, and software, ensuring scalability and cost-effectiveness.
- Mentored and guided staff, fostering professional growth and enhancing team productivity.

Key Technologies and Tools: PHP, JavaScript, jQuery, css, html, MySQL, Linux, Subversion, Apache, AWS, NetBeans, UML, DER.

Mayer Systems – Belo Horizonte, Brazil

Aug 2013 – Feb 2014

Software Architect

- Designed, planned, developed, and implemented a vehicle tracking software and ERP provided to clients.
- Led the architecture and development of scalable solutions, ensuring high availability and performance.
- Created a dedicated server to receive and process telemetry and localization data from vehicle tracking devices, optimizing real-time data handling.
- Managed support process flows for clients, overseeing web services, databases, DNS, Linux servers, and VoIP systems.

Key Technologies and Tools: PHP, MySQL, Linux, Subversion, Apache, NetBeans, UML, DER.**IGTI – Belo Horizonte, Brazil**

Feb 2013 – Aug 2013

Software Architect

- Designed, planned, and implemented a new academic software system for the institute, ensuring scalability and efficiency.
- Conducted technical research and requirements gathering, defining system architecture and business rules.
- Developed conceptual models, domain models, entity-relationship diagrams (ERD), and proof of concepts (PoCs) to validate system feasibility.

Key Technologies and Tools: PHP, CodeIgniter, MySQL, Linux, Subversion, Apache, NetBeans, UML, DER.**Vector Internet Business – Belo Horizonte, Brazil**

July 2011 – Feb 2013

Junior PHP Developer

- Developed new features and fixed bugs in the company's CRM software, enhancing functionality and user experience.
- Managed Linux servers, ensuring system stability, security, and performance.
- Administered DNS, email services, backups, and website hosting for clients, maintaining high availability and reliability.
- Provided technical support and training to clients, ensuring effective use of CRM software and IT services.
- Collaborated with the development team to improve system performance and maintainability.
- Optimized existing codebases, ensuring clean and efficient development practices.
- Tested and debugged applications, resolving critical issues to improve system stability.

Key Technologies and Tools: PHP, JavaScript, jQuery, css, html, MySQL, Linux, Subversion, NetBeans, UML.**Uniserv Group Unity Surveillance Services – Belo Horizonte, Brazil**

Dec 2009 – July 2011

TOTVS Microsiga Protheus Developer & IT Manager

- Managed all technology and telecommunications operations, ensuring seamless IT infrastructure and communication systems.
- Designed and developed solutions to optimize administrative processes, conducting technical research and implementing custom routines for ERP Microsiga Protheus.
- Administered and optimized databases, ensuring data integrity, performance, and security.
- Provided training to new employees, ensuring proper onboarding and efficient use of IT systems.
- Conducted data analysis and generated reports, offering valuable insights to support business decision-making.

Key Technologies and Tools: TOTVS, Microsiga Protheus, Windows Server, SQL Server, Firewall.**Suprema Computing – Belo Horizonte, Brazil**

Apr 2009 – Nov 2009

Technical Support

- Performed preventive and corrective maintenance on client company computers, ensuring optimal performance and reliability.
- Provided remote and on-site technical support, diagnosing and resolving hardware and software issues.
- Installed, deployed, maintained, and managed Linux servers, ensuring system stability and security.
- Developed solutions for common technical challenges, improving customer experience and minimizing downtime.

Key Technologies and Tools: Linux, OpenSUSE, Fedora, Ubuntu, samba, squid, iptables, firewall, ftp, internet gateway, VPN, DNS, pop3, imap, smtp, Amavis, ClamAV, SpamAssassin, virtualization, XenServer, backup, Windows, anti-virus, active directory, LDAP, wired networks, PHP, proprietary software.

Brasol – Brazil Solidarity Action – Belo Horizonte, Brazil

May 2008 – Feb 2009

Technical Support

- Performed maintenance on computers, laptops, and office security systems, ensuring reliability and security.
- Managed and maintained the IT sector data server, optimizing performance and uptime.
- Refurbished and prepared computers for donation, supporting the development of Telecentres in schools.
- Tested and developed Linux-based operating systems tailored for Telecentre use, enhancing accessibility and usability.

Key Technologies and Tools: Linux, Telecentre environment, Tucunaré Linux, Windows.

Fortalnet – Fortaleza, Brazil

Sep 2007 – Jan 2008

Computer Technician

- Performed software and hardware maintenance for AT and ATX computer platforms, ensuring system reliability.
- Installed, configured, and maintained FreeBSD operating systems, optimizing performance and security.
- Managed and maintained network infrastructure, including Access Points, Routers, Cisco Aironet, Wi-Fi systems, and local networks.
- Provided general IT support and troubleshooting, resolving technical issues efficiently.

Key Technologies and Tools: Linux, FreeBSD, Unix, iptables, firewall.

Passarelli Construction – Fortaleza, Brazil

Sep 2005 – Apr 2007

Work Overseer

- Managed employee time tracking records, ensuring accurate attendance and payroll processing.
- Supervised security operations at the site lobby, coordinating with security guards to maintain workplace safety.
- Oversaw warehouse inventory and resource management, ensuring materials were available for construction needs.
- Handled emergency resource procurement, ensuring uninterrupted project progress.
- Provided operational support to engineering and construction teams, assisting with logistics and workflow coordination.
- Operated various construction machinery, including pickup trucks, trucks, and backhoes, to support construction demands.
- Maintained office and construction site computers, ensuring IT systems remained functional.
- Participated in CIPA (Internal Commission for Accident Prevention) to promote workplace safety and compliance.
- Prepared administrative reports detailing construction activities and resource utilization.
- Managed additional managerial and administrative tasks as required to support site operations.

Key Technologies and Tools: Windows, Excel

Santa Isabel's City Hall – Santa Isabel, Brazil

Aug 2003 – Dec 2004

IT Teacher Intern

- Designed and delivered IT classes, developing engaging lesson plans to enhance digital literacy.
- Facilitated social communication, helping students and staff improve their technological proficiency.
- Maintained and managed school computers and network infrastructure, ensuring a stable learning environment.

Key Technologies and Tools: Windows 95, 98 and ME, Word, Excel, PowerPoint, and Access 97, Typing Training Software.

EDUCATION

MBA in Information Technology Management

Anhanguera University Center – Belo Horizonte, Brazil

Jan 2025 – Present

Bachelor of Information Systems (NFQ Level 8)

UNA University Center – Belo Horizonte, Brazil

Jan 2009 – Dec 2013

CERTIFICATES/COURSES

AWS Certified Cloud Practitioner, Amazon Web Service (AWS)

Oct 2024 – Oct 2027

Functional Programming with Python, Federal University of Minas Gerais

Apr 2023

Modern Software Engineering and Software Testing, Federal University of Minas Gerais

Nov 2021

JavaScript MasterClass, Branas.io

<https://app.branas.io/api/public/certificates/695c5314-aa3d-47ff-b279-12775c9bc0a5/share>

Clean Code and Clean Architecture, Branas.io

<https://app.branas.io/api/public/certificates/bf4a86c2-f6e2-4263-acca-ac010007ff13/share>

GCP Associate Cloud Engineer - Google Cloud Certification, Udemy

<https://www.udemy.com/certificate/UC-824a52a7-0537-48fe-ba12-29922ae57362>

Complete Python Bootcamp From Zero to Hero in Python, Udemy

<https://www.udemy.com/certificate/UC-1146ca31-b755-47c9-9224-7868b37a2523>

Application monitoring with Prometheus and Grafana, Udemy

<https://www.udemy.com/certificate/UC-1101dae8-7db5-410c-8747-34d411041d24>

SQL & PostgreSQL for Beginners: Become an SQL Expert, Udemy

<https://www.udemy.com/certificate/UC-d321b422-8e97-4667-af44-dc5f20d7abf3>

Go (Golang): Exploring the Google Programming Language, Udemy

<https://www.udemy.com/certificate/UC-d7c3916f-6577-40b8-9830-0282fc3158ab>

OOP: Level 1, SymfonyCasts

<https://symfonycasts.com/certificates/6C80BAB47C55>

OOP: Level 2, SymfonyCasts

<https://symfonycasts.com/certificates/9A36463DCC64>

OOP: Level 3, SymfonyCasts

<https://symfonycasts.com/certificates/F9A9AAB21C68>

OOP: Level 4, SymfonyCasts

<https://symfonycasts.com/certificates/0045F0465C82>

Symfony 4 Fundamentals: Services, Config & Environments, SymfonyCasts

<https://symfonycasts.com/certificates/337CB922C102>

Symfony 4 Level 1, SymfonyCasts

<https://symfonycasts.com/certificates/4ECC5FA2C101>

Doctrine & the Database, SymfonyCasts

<https://symfonycasts.com/certificates/E2F671CBC103>

AutoCAD 2013, iPED, Polytechnic Institute of Distance Education

<https://www.iped.com.br/certificado?numero=624606>

Zimbra Collaboration Suite, Total Administration, 4Linux

<https://certificados.4linux.com.br>

Certificate ID: 4L446300025949 – Code of verification: mGedSL42

PHP Essentials, PHPPrime.

6231 e 6232 – Maintaining and Implementing a Microsoft SQL Server 2008 Database, Bizmart BHS.

ADVPL I e II, Architecture and Installation, Configurator, DevStudio and customizable reports, Totvs.

Bootcamp Apache CloudStack On-Line Brazil, ShapeBlue Brazil.

Microcomputers assembly and maintenance, SENAI.

Installation and deployment of home networks, SOS Computers.

LANGUAGES

Portuguese: Native.

English: Advanced.