

VICTOR RAMOS P. M. SOARES

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Professional Summary

Software Engineer with over 7 years of experience developing web solutions, geospatial systems, and automation for corporate environments. Works across backend, frontend, databases, cloud, and deployment, with a focus on APIs, system integration, data modeling, and scalability.

Experienced in geoprocessing, PostGIS, QGIS, GeoServer, spatial analysis, and the development of solutions for georeferenced data. Also works with data engineering, ETL pipelines, performance optimization, and technical architecture documentation, applying best practices such as Clean Architecture, SOLID, DDD, CQRS, and UML.

Combines systemic thinking, analytical reasoning, and technical experience to build robust, scalable solutions aligned with business needs.

Education

Fatec Jacareí <i>Technologist, Multiplatform Software Development</i>	2025 - now <i>Jacareí, SP – Brazil</i>
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Fatec de São Paulo <i>Technologist, Systems Analysis and Development</i>	2024 – 2025 <i>São Paulo, SP – Brasil</i>
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USP Esalq <i>MBA, Software Engineering</i>	2023 – on hold <i>Piracicaba, SP - Brasil</i>
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USP Esalq <i>MBA, Data Science and Analytics</i>	2021- 2023 <i>Piracicaba, SP – Brasil</i>
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Fatec São Paulo <i>Hydraulics and Environmental Sanitation Technologist</i>	2015 - 2020 <i>São Paulo, SP – Brasil</i>
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Etec Osasco II <i>Chemical technician</i>	2012 - 2014 <i>Osasco, SP – Brasil</i>
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Professional Experiences

Hapvida – São Paulo/SP (Hybrid)

Senior Developer | Jan 2025 – Present

- Working on the development, maintenance, and evolution of corporate systems focused on internal processes and digital journeys, with an emphasis on stability, scalability, and delivery quality.
- Development and support of backend services in Python, including APIs, business rules, system integrations, and handling of critical application flows.
- Maintenance and evolution of frontend interfaces using Angular and React, contributing to usability improvements, functional fixes, and integration with backend services.
- Technical architecture analysis, identification of improvement opportunities, and support in defining solutions for distributed systems and application integrations.
- Work with CI/CD pipelines in Azure DevOps, monitoring builds, releases, branch versioning, and deployments across different environments.
- Support in GMUD control, release organization, and delivery validation, ensuring greater traceability, governance, and security in change management processes.
- Investigation and resolution of incidents, log analysis, behavior validation in staging environments, and technical support for production-related demands.

- Collaboration with multidisciplinary teams, participating in technical refinements, code reviews, deployment alignments, and continuous improvement of development workflows.

Monitora Tecnologia e Informação Ltda – São Paulo/SP (Híbrido)

Senior Developer | Sep 2024 – Jan - 2025

- Development and maintenance of web systems and geoprocessing services using Python, Go (Golang), JavaScript, and PostGIS, with a focus on performance, scalability, and microservice integration.
- Implementation and orchestration of containers and services with Docker, integrating REST APIs and automated spatial data pipelines.
- Creation of specialized ETL pipelines for data governance, ensuring quality, traceability, and efficiency in complex spatial and operational data flows.
- Development and automation of functional and integration tests using Cypress, Pytest, and Selenium, ensuring application quality and stability.
- Development of advanced algorithms based on graphs, genetic algorithms, and neural networks, applied to modeling, optimization, and forecasting in infrastructure systems.
- Modelagem e documentação de arquiteturas de software com UML, aplicando princípios de Clean Architecture, SOLID, DDD (Domain Driven Design) e CQRS.
- Implementation of parallel and concurrent services in Go, using goroutines, channels, and distributed workers to optimize the processing of large volumes of geospatial data.
- Application of best practices in data engineering, version control, automated testing, and continuous integration/continuous delivery (CI/CD).
- Data analysis and visualization in QGIS and PostGIS, integrating analytical results into dashboards and real-time monitoring systems.

Desenvolvedor Backend | Oct 2022 – Sep 2024

- Development and maintenance of geoprocessing web systems using Python, JavaScript, and PostGIS.
- Implementation of containers and services with Docker, integrating APIs and spatial data pipelines.
- Software architecture modeling and documentation using UML and engineering best practices.
- Analysis and processing of geospatial data in QGIS for sanitation and infrastructure solutions.

Technical Supervisor | Nov 2021 – Oct 2022

- Coordination of field teams and supervision of maintenance activities in water supply networks.
- Development of hydraulic models for performance analysis and loss reduction in water supply systems.
- Creation of interactive dashboards and contract control spreadsheets.
- Application of automated tests and integration of solutions using Pytest, Terraform, and GitHub Actions.

Technical Assistant | Dec 2020 – Nov 2021

- Validation of information systems related to water, sewage, and drainage networks.
- Digitization and organization of cadastral databases in GIS and CAD environments.
- Support to leadership in network mapping and monitoring activities.
- Creation of spreadsheets and reports for operational data analysis.

Auxiliar de Desenvolvimento | Aug 2019 – Dec 2020

- Research and implementation of geoprocessing and data integration solutions.
- Technical support in field surveys and digitization of infrastructure networks.
- Creation and maintenance of technical databases and operational spreadsheets.

Geoprocessing Data Intern | Sep 2018 – Aug 2019

- Support in the development of GIS solutions and spatial data integration.
- Digitization of analog records and validation of technical cadastres.
- Follow-up on field data surveys and support to the technical team.

AGM Engenharia – São Paulo/SP

Intern | Sep 2017 – Sep 2018

- Detailing of water distribution network projects.
- Survey of components and preparation of cost estimates for materials and services.
- Participation in the development of hydraulic executive projects.

Operator Meio Ambiente – Cotia/SP

Chemical Technician II | Oct 2014 – Nov 2015

- Performance of physicochemical analyses of waste, effluents, water, and soil.
- Execution of laboratory tests, including BOD, COD, pH, phenol, cyanide, chlorine, alkalinity, among others.

- Preparation of samples for leaching and solubilization tests.

Chemical Technician I | May 2014 – Oct 2014

- Chemical analyses using spectrophotometry, gravimetry, and potential difference methods.

Laboratory Intern | Oct 2013 – Jun 2014

- Support in laboratory analyses and treatment of waste and effluents.
- Quality control of samples and organization of the physicochemical laboratory.

Skills

- **Languages:** Native Portuguese, basic/intermediate English.
- **Programming Languages:** Python, Go, TypeScript, JavaScript, Java, C++, SQL / PLpgSQL, VBA, R, HTML, and CSS.
- **Backend and APIs:** FastAPI, Django, Flask, Node.js, Express, Prisma, REST APIs, microservices, queues, asynchronous jobs, system integration, and business rule modeling.
- **Frontend:** Next.js, React, Angular, Tailwind CSS, Bootstrap, API integration, and development of responsive web interfaces.
- **Databases:** PostgreSQL, PostGIS, relational and spatial data modeling, procedures, functions, triggers, views, query optimization, and structuring of georeferenced databases.
- **GIS and Geoprocessing:** QGIS, QGIS Server, GeoServer, OpenLayers, PostGIS, vector and raster data, WMS/WFS services, publication of geographic layers, spatial analysis, georeferencing, and GIS system integration.
- **GIS Development:** Development of solutions for visualization, editing, validation, and integration of geographic data, including web and desktop systems for technical cadastres, infrastructure networks, and spatial monitoring.
- **Cloud and DevOps:** Docker, Terraform, Azure DevOps, GitHub Actions, CI/CD, AWS, Google Cloud Platform, Fly.io, version control, deployment automation, and infrastructure as code.
- **Messaging and Asynchronous Processing:** RabbitMQ, Kafka, workers, parallel processing, goroutines, data pipelines, and automation of operational workflows.
- **Software Architecture and Engineering:** Clean Architecture, DDD, SOLID, CQRS, microservices design, UML documentation, technical architecture analysis, and design patterns.
- **Data Engineering and Data Science:** ETL, data governance, database automation and integration, graph modeling, genetic algorithms, neural networks, machine learning, and spatial data analysis.
- **Methodologies and Management:** Scrum, Kanban, agile methodologies, project management, technical leadership, mentoring, collaboration, and communication with multidisciplinary teams.

Certificados

- Associate Degree in Environmental Sanitation Technology — FATEC São Paulo — Completed in 2020
- MBA in Data Science and Analytics — USP ESALQ — Completed in 2023
- Short courses and continuous education in Software Development, Data Engineering, and Artificial Intelligence.