

Rodrigo Borges dos Santos

Software Engineer

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SUMMARY

Software Engineer working in **backend** and **full-stack development** since **2015**, specialising in **TypeScript**, **Python**, **PHP** and **cloud-based microservices**. Skilled in **designing scalable systems** using frameworks like **NestJS**, **Express**, **Laravel** and **Django**, and deploying to **AWS** and **Kubernetes** environments. Passionate about **clean code**, designing **clear and maintainable architectures**, performance optimisation, and continuous learning, with a strong background in mentoring teams and improving system reliability.

WORK EXPERIENCE

Housi, São Paulo, Brazil — Senior Software Engineer

FEBRUARY 2020 - AUGUST 2022

- Led the creation of a cutting-edge microservice infrastructure, resulting in a robust and scalable backend architecture **achieving 99.9% uptime**.
- Engineered and implemented a microservices architecture that **reduced backend response time by 27%**, significantly improving scalability and user experience.
- Crafted a **Geolocation search solution** powered by **Elasticsearch**, **SNS**, and **SQS**, enhancing search functionality, user experience and a **44% reduction in response time** from the previous one.
- Conceptualised and constructed a comprehensive **payment and subscription system** from the ground up, improving the reliability of rent payments and reducing the entire Housi **booking process** to less than **60 seconds**.
- Guided and **mentored** a backend team of **5 developers as a tech lead**, fostering collaboration and skill growth.
- Applied knowledge in **Microservices**, **Kubernetes**, **Docker**, **Typescript**, **Node.js**, **NestJS**, **Express**, **MikroORM**, **TypeORM**, **Jest**, **MongoDB**, **Redis**, **ECS**, **EKS**, **Github Actions**, and monitoring systems such as **Prometheus** and **Grafana**

Magazine Luiza, São Paulo, Brazil — Mid Software Engineer

JULY 2019 - FEBRUARY 2020

- Managed a pivotal **API Gateway** crucial to numerous company squads, processing **millions of daily requests**.
- Maintained applications that scaled up to **70K simultaneous users**, communicating with cross-functional teams regarding the product
- Crafted features within the catalogue API, enhancing **sales conversion rates** through refined product descriptions, targeted product suggestions, customer comments, and promotional offers.
- Applied knowledge in **Python**, **Django**, **AIOHTTP**, **Node.js**, **Typescript**, **MongoDB**, **Redis**, **Kinesis**, **SQS**, **SNS**, and **GCP PubSub**

WTT, São Paulo, Brazil — Mid Software Engineer

SEPTEMBER 2018 - JUNE 2019

- Led the **redesign of a legacy project**, resulting in a great improvement in usability, performance and maintainability, achieved by crafting a new system architecture from the **ground up**.
- Successfully implemented agile methodologies, resulting in streamlined workflow and enhanced code quality, with a **20% increase in efficiency** through promoting iterative development cycles and cross-team collaboration.
- **Mentored a team of 4 software engineers** with varying skill levels, offering guidance on concepts and best practices, and addressing coding issues and inquiries.
- Applied knowledge in **Docker, Typescript, Node.js, NestJS, Express, TypeORM, Jest, PostgreSQL** and **Redis**

Betalabs, São Paulo, Brazil — Full-stack Software Engineer

JULY 2015 - AUGUST 2018

- Developed and maintained both **frontend** and **backend** components using **Angular, PHP, and MySQL**.
- Built **REST APIs** with **Laravel**, employing **Test-Driven Development (TDD)** and **PHPUnit** for integration within a distributed platform.
- Collaborated on the end-to-end **re-architecture** and **rebuild of the company's core product**.
- Built and maintained **integrations** with **SEFAZ (NF-e)**, **payment gateways**, **marketplaces**, and **Correios**, delivering **automated invoicing**, **payments**, and **shipping** solutions for client systems.
- Acted as a **technical tutor**, assisting colleagues in understanding the entire platform.
- Applied knowledge in **Docker, Typescript with Angular, Node.js, PHP, Laravel, Memcached, MySQL, PHPUnit, Nginx, Apache, PHP-CS, Vagrant**

SKILLS

- | | |
|---|---|
| → Languages: Typescript, Python, PHP | → Tools: Node.js, MikroORM, Sequelize, TypeORM, Jest, PHPUnit, Helm, Vault, Grafana, Prometheus, Vagrant, Github Actions |
| → Frameworks: Express, NestJS, Laravel, Django, AIOHTTP, Angular | → Infra: Kubernetes, Docker, AWS: S3, ECS, EKS, Lambda, SQS, SNS, ECR, CloudWatch |
| → Databases: MySQL, MongoDB, Redis, Memcached, PostgreSQL | |
| → Techniques: OOP, SOLID, Rest APIs, Microservices, TDD | |

EDUCATION

Clarendon Business College, Sydney, Australia — Advanced Diploma | Sep 2023 – Aug 2025

Information Technology

Universidade Paulista, São Paulo, Brazil — Associate's degree | Aug 2018 – Dec 2019

Analysis and Systems Development

Universidade Paulista, São Paulo, Brazil — Bachelor's degree | Aug 2015 – Dec 2017

Computer Science

LANGUAGES

Portuguese (Native), English (Fluent), Spanish (Basic)