

Sebastiao Ribeiro

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Summary

Software Engineer with a proven track record of delivering **high-availability solutions** for **100M+ users**. Expertise in **Node.js, Java, and Python**, with a specialized focus on **Microservices, IAM (Keycloak, OAuth, OIDC)** and cloud architecture (**AWS and OCI Certified**). Combines a strong **analytical foundation** - including data decision-making for **Brazil's National Census** - with a drive to bridge complex backend architecture and business growth.

Experience

Software Engineer, AI/R Company - Vivo Telefónica – São Paulo, SP, Brazil Mar 2024 – present

- Developed and maintained critical **Java** and **Node.js** microservices for **Vivo (Telefónica)**, one of Brazil's **largest** telecommunications companies with over **100M customers**
- Architected scalable **RESTful APIs** with **automated tests** that supported increase in digital transaction volume without performance degradation
- Integrated and extended secure authentication flows using **Keycloak (OAuth2 and OIDC)** to support a 100M+ user identity ecosystem. Developed custom access control that **blocked unauthorized access attempts**
- Developed scalable data solutions using **MongoDB** and **Redis** to manage high-traffic data and persistent storage
- Developed and integrated cloud and on-premise solutions, including **Git, Kafka, Grafana, OpenTelemetry, Kubernetes, and Azure Blob Storage**, to enhance system observability and delivery

Software Engineer Intern, AI/R Company – São Paulo, SP, Brazil Mar 2023 – Dec 2023

- Learned the **development lifecycle** of distributed services to develop backend features in **Node.js (Nest.js)**, ensuring they met production standards
- Assisted the engineering team in improving data flow reliability by developing integration layers for **PostgreSQL** and **Redis**, learning to optimize query performance for production environments
- Learned enterprise **software development patterns** by assisting senior engineers in the technical design discussions

Census Data Analyst, Brazilian Institute of Geography and Statistics (IBGE) – Araraquara, SP, Brazil June 2022 – Dec 2022

- Automated data validation processes for the **National Census** using analytical tools, ensuring 99%+ data integrity across demographic datasets
- Interpreted complex datasets to **support national-level decision-making** and **public policy development** through precise statistical reporting

Education

Centro Universitário Internacional, BS in Software Engineering – Araraquara, SP, Brazil Apr 2022 – Apr 2026

Skills

Natural Languages: English (B2), Portuguese (native)

Programming Languages: Typescript, Java, Javascript, Python, a little bit of Haskell

Frameworks & Runtimes: Nest.js, React.js, Spring Boot, Express, Koa, Apollo, Node.js

Security & IAM: Keycloak, OAuth2, OpenID Connect (OIDC), Open Policy Agent (OPA)

Data & Storage: PostgreSQL, MongoDB, MySQL, AWS S3, Azure Blob Storage, Redis, Valkey

Architecture & Patterns: Microservices, DDD (Domain-Driven Design), Clean Architecture, RESTful APIs, Functional Programming

Certifications: AWS Certified Cloud Practitioner, OCI Certified Developer Professional, OCI Certified Data Science Professional, OCI Certified Generative AI Professional