

# IVAN AUGUSTO XAVIER SOUZA

## Senior Software Engineer

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### PROFESSIONAL SUMMARY

Senior Software Engineer with **17+ years of experience** architecting large-scale distributed systems for government and enterprise clients. Specialized in backend (Node.js, Go), cloud-native platforms (Kubernetes/OpenShift), and CI/CD pipelines with integrated security. Proven track record in legacy modernization, monolith-to-microservices migration, and automation. **Red Hat Champion** and **Certified ScrumMaster®**.

### TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Go, PHP, Rust

**Backend & APIs:** Node.js, Express, NestJS, Go, REST, gRPC, WebSockets, Event-driven architecture

**Cloud & Infra:** Kubernetes, OpenShift, Docker, Terraform, Ansible, Linux (Debian/RHEL/Fedora), ESXi

**CI/CD & Security:** Jenkins, GitLab CI/CD, GitHub Actions, Azure DevOps, SAST/DAST

**Databases & Messaging:** PostgreSQL, MongoDB, Redis, Oracle, MySQL, OpenSearch, RabbitMQ

### PROFESSIONAL EXPERIENCE

#### Senior Software Engineer — CENTRAL IT TECNOLOGIA

Jul 2023 – Jan 2026

Contributed to re-engineering an enterprise chatbot platform, migrating a NestJS monolith to Go microservices for government clients.

- Architected the migration of a NestJS monolith into **5+ Go microservices** on Kubernetes HA with independent deployability
- Built a CI/CD pipeline on Jenkins with SAST, DAST, and automated code review gates — replacing bi-weekly manual deploys with on-demand releases
- Developed Rust components for the NLU engine; created an embeddable web widget for legacy government portals
- Contributed architecture standards for a **10+ engineer** cross-functional team

Go · Node.js · NestJS · Rust · TypeScript · PostgreSQL · Kubernetes · Jenkins · SAST/DAST

#### Solutions Architect — ALLTECH SOLUÇÕES

Oct 2019 – May 2022

Red Hat Champion leading OpenShift solutions for enterprise clients including Infraero (54+ airports).

- Designed and deployed OpenShift clusters up to **30 nodes** with HA control planes, Ceph storage, and Ansible-automated Day-2 operations
- Automated infrastructure provisioning and conducted technical pre-sales translating business requirements into architecture proposals

Kubernetes · OpenShift · Ansible · Docker · Ceph · Jenkins · GitLab CI · ESXi · vCenter

#### Tech Lead & Scrum Master — CENTRAL INFORMATION TECHNOLOGY

Sep 2022 – Mar 2023

- Led a 3-person team building a BLE beacon monitoring mobile app with IoT module (Serial + BLE)
- Defined architecture (React Native, AdonisJS/Node.js, MongoDB); established code review culture and junior mentoring

React Native · Node.js · AdonisJS · MongoDB · BLE · Serial

#### Systems Analyst — INDRA SISTEMAS (CAPES / Ministry of Education)

Jan 2017 – Jun 2019

- Built REST APIs with JWT in Laravel/Lumen for government education platforms (CAPES) with Angular frontend
- Architected the **SisProuni 2.0** modernization — Brazil's national university scholarship system; contributed to the Carolina Bori platform

PHP · Laravel · Angular · Oracle · Redis · Docker · Jenkins · OpenShift

#### Founder & Software Engineer — NAESQUINA TECNOLOGIA

Mar 2011 – Present

- Real-time vehicle tracking platform (Node.js, RabbitMQ, WebSockets, K8s) and AI sales agent (in development)

### ADDITIONAL EXPERIENCE

**Software Engineer** — MBA TECNOLOGIA (2015–2017): 6 mobile apps for MEC/INEP/Ministry of Health | PHP, jQuery, Oracle

**Systems Analyst/Developer** — SQUADRA (2013–2014): GIS railway system | PHP, PostGIS, ETL

**Systems Analyst** — UNIMIX (2008–2010): TCU government portals | PHP, Oracle

**Junior/Mid Developer** — TECNISYS (2007–2008): biometric authentication | Java, Oracle

## OPEN SOURCE PROJECTS

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- ▶ **Bluetooth Virtual Keyboard** — Turns Linux into a Bluetooth keyboard via BLE. Clean Architecture. →
- ▶ **SOLID ID** — 128-bit unique ID generator. Zero dependencies. Time-sortable. →
- ▶ **Debian 13 Hardening & Tuning** — Ansible playbook for CIS/STIG hardening, 50+ variables. →
- ▶ **k8s-one** — Single-node K8s cluster from scratch with upstream components. →

## EDUCATION & LANGUAGES

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**Computer Science (B.S.)** — Cruzeiro do Sul University (in progress — 2029)

**Certified ScrumMaster (CSM)** — Scrum Alliance, 2016

**Portuguese:** Native | **English:** Intermediate — strong technical reading comprehension, professional written communication