

JOÃO VICTOR SANTOS DA COSTA

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PROFESSIONAL SUMMARY

Software Engineer with a proven track record in full-cycle backend, frontend, and mobile development, combined with experience in team collaboration and agile project management. Specialist in **Java (Spring Boot)**, **Kotlin Multiplatform (KMP)**, and **Compose Multiplatform**, delivering scalable, clean-architecture solutions across multiple platforms. Experienced in leveraging **AI-assisted development** — including Claude, GitHub Copilot/Codex, and Antigravity — to accelerate code generation, architectural decisions, automated test creation, and code reviews. Recognized for conducting code reviews, mentoring junior engineers, and applying Scrum/agile methodologies to maximize delivery efficiency.

EXPERIENCE

RCDNC

Dec. 2023 – Dec. 2025

Software Engineer

Remote

- **Backend Development:** Full-cycle development of scalable RESTful APIs and microservices using **Java (Spring Boot)** and **PHP (Laravel)**, with clean architecture and SOLID principles.
- **Mobile & Multiplatform:** Development and optimization of cross-platform applications using **Kotlin Multiplatform (KMP)** and **Compose Multiplatform**, with shared business logic targeting Android and iOS.
- **AI-Assisted Development:** Integrated **Claude (Anthropic)**, **GitHub Copilot / Codex**, and **Antigravity** into the development workflow for AI-powered code generation, architectural guidance, automated test scaffolding, and intelligent code reviews, reducing feature delivery time significantly.
- **Automated Testing:** Authored and maintained unit, integration, and end-to-end test suites (JUnit, Mockito, Compose UI Tests) using AI tooling (Antigravity) to generate test cases, increasing code coverage and reducing post-release defects.
- **Data Persistence:** Modeled and integrated relational databases (**MySQL**, **PostgreSQL**), ensuring data integrity, referential consistency, and query performance.
- **Team Collaboration & Mentoring:** Conducted code reviews, enforced design system and architectural standards, mentored junior developers and interns, and facilitated Scrum ceremonies (sprint planning, retrospectives, daily stand-ups).

ERP Vendas

Jul. 2022 – Oct. 2022

Full Stack Developer

Remote

- Diagnosed and resolved complex bugs in legacy management systems, improving platform stability and reducing system downtime.
- Assisted in structuring team workflows and organizing development squads for the delivery of new modules and internal tools.

Aroma do Sul

Jun. 2020 – Oct. 2023

Store Manager

Uruguaiana, RS

- Led full business unit operations including daily management, financial control (cash flow), and inventory management.
- Designed and executed digital marketing and paid traffic campaigns focused on conversion and sales growth.

Unipampa – Administrative & Communications Scholarship

Aug. 2021 – Aug. 2022

Administrative & Communications Support

Alegrete, RS

- Managed official course blog (WordPress) and social media strategy to amplify academic project visibility and student engagement.
- Coordinated planning and outreach for **ERES 2021** (Regional School of Software Engineering), one of the largest regional academic events in the field.
- Provided direct administrative support to the Software Engineering department coordination.

PROJECTS

Virtuosa – Electronic Organ Learning Ecosystem

Kotlin, Spring Boot 3, Flutter, Python, Next.js, PostgreSQL, Firebase, Fly.io, Supabase

- Architected a **full-stack, multi-module educational ecosystem** covering Backend API, Mobile App, Web/Admin portal, and an Audio Analysis microservice – all production-ready on Fly.io.

- **Backend (Kotlin + Spring Boot 3):** Designed a Feature-Based REST API with **Spring Security / JWT, Flyway** migrations, **OpenAPI/Swagger** docs, and Firebase Cloud Messaging (FCM) for push notifications. Deployed on Fly.io with PostgreSQL (Supabase).
- **Mobile (Flutter + Riverpod):** Built a cross-platform app with Clean Architecture, MVVM, GoRouter navigation, and a bespoke *Sacred Minimalism* design system (EB Garamond / Cinzel), including full TalkBack / VoiceOver accessibility support.
- **Audio Analysis (Python + Librosa):** Developed a DSP microservice for automatic BPM detection, onset detection, beat tracking, and spectral analysis to validate student practice sessions and feed the XP gamification engine.
- **Web (Next.js + TypeScript):** Delivered a high-impact, performance-optimised landing page with advanced SEO, glassmorphism UI, micro-animations, and full responsiveness; deployed on Vercel.
- Implemented a **gamification system** (XP, levels, streaks, achievements) driven by BPM performance multipliers and a strict pedagogical progression engine with instructor approval gates.
- Repository: github.com/Jao-Viquitor/virtuosa

Portfolio Website

React, Vite, CSS

- Developed a responsive portfolio showcasing projects and technical skills, with performance optimizations for fast load times.
- Live at: viquitor-me.vercel.app

EDUCATION

Unopar

Bachelor of Software Engineering – Completed Dec. 2025

Remote

Mar. 2024 – Dec. 2025

Universidade Federal do Pampa (Unipampa)

Bachelor of Software Engineering – Completed semesters 1–5

Alegrete, RS

Mar. 2017 – Sept. 2022

SKILLS & TECHNOLOGIES

Languages: Java, Kotlin, Dart, JavaScript (ES6+), TypeScript, PHP, Python, SQL, HTML5, CSS3

Backend: Spring Boot, Laravel, Flask, REST API, Microservices, Clean Architecture, SOLID, JWT, Flyway

Mobile & Multiplatform: Kotlin Multiplatform (KMP), Compose Multiplatform, Android Native, Flutter

Frontend: Vue.js 3, React.js, Vite, Tailwind CSS, Bootstrap

Databases: MySQL, PostgreSQL, MongoDB

AI & Developer Tools: Claude (Anthropic), GitHub Copilot, Codex (OpenAI), Antigravity (AI coding assistant) – applied to code generation, architecture review, automated test scaffolding, and intelligent PR review

DevOps & Infra: Git, GitHub, Docker, Vercel, Render, CI/CD

Testing: JUnit, Mockito, Compose UI Tests, automated test generation with AI tooling

Agile & Design: Scrum, Jira, Trello, Figma (UI/UX), WordPress

Languages (Spoken): Portuguese (Native), English (Intermediate – Reading), Spanish (Intermediate – Reading & Conversation)

Soft Skills: Technical Leadership, Mentoring, Analytical Thinking, Problem-Solving, Assertive Communication, Adaptability, Process Management, Organizational Skills

VOLUNTEER WORK

Congregação Cristã no Brasil

Statutory Member – Treasury & Secretariat

2016 – Present

- Managed treasury operations including cash flow control, reconciliation of financial entries, and official documentation.
- Organized assemblies and administrative meetings; drafted and validated official minutes ensuring statutory compliance.

Congregação Cristã no Brasil

Music Instructor

2014 – Present

- Planned and delivered theoretical and practical music lessons, tracking individual and collective technical progress.