

JOÃO PAULO DIAS VENTURA

SP - Brazil

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[Portfolio](#) • [Github](#)

SUMMARY

Software Developer acting as lead technical responsible in startups, leading architecture and development of large-scale financial systems and data-oriented applications. Experience in domain modeling, transactional integrity, scalability and applied AI automation. Strong background in architectural decisions, technical standards definition and delivery of auditable and economically efficient solutions.

SPECIALIZATION

- Large-scale data processing
 - Financial systems and high-volume billing
 - Critical data integrity and validation
 - System architecture and domain modeling
 - Cloud deployment and environment maintenance
 - Applied AI, intelligent automation and API integrations
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TECHNICAL SKILLS

- *Frontend*: Angular, Next.js and React Native
 - *Backend*: NestJs, Java and Golang
 - *Databases*: MongoDB, PostgreSQL and Redis
 - *Cloud & DevOps*: Docker, AWS and GCP
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PROFESSIONAL EXPERIENCE

Mid-Level Developer - UFind (Jun 2025 - Present)

Lead technical responsible for the architecture and implementation of a data-driven AI agent, structuring ingestion and processing flows for over 16GB of data. Defined architectural standards, modeling and integrations with proprietary messaging system, ensuring traceability, transactional history and scalability.

Junior Developer - Representa Online (Sep 2024 - May 2025)

Led the conception and implementation of a billing system for an insurance brokerage, processing files with over one million beneficiaries. Designed high-performance architecture for multiple layouts and financial rules, reducing manual operations from days to minutes.

Software Development Intern - Representa Online (Jun 2024 - Aug 2024)

Main developer in the platform's product and service catalog core. Improved performance in queries, filters and pagination with large datasets. Implemented fault tolerance mechanisms and business-rule-based access control.

RELEVANT PROJECTS

VOX – Electoral System

I conceived and implemented the complete system architecture with a strong focus on vote integrity, auditability, and traceability. I structured the domain model, transactional validations, and audit trails to ensure consistency, reliability, and security throughout the voting process. The system successfully supported 500+ concurrent users in an institutional environment.

Etecfy – Music Streaming Platform

I designed and developed the platform architecture with emphasis on scalability and performance, structuring an optimized catalog and integrating with both web-based and native media services. I defined a data model prepared for catalog and user growth, delivering a fully functional application that reached 1.3K accesses within the first 6 hours after launch.

EDUCATION

- **Fatec de Osasco (Fev 2026 - Dez 2028)**: Multiplatform Software Development
 - **Etec de Guarulhos (Fev 2023 - Dez 2025)**: Systems Development
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CERTIFICATIONS

- Financial Services Sector Knowledge (**MongoDB**)
 - Advanced Data Modeling (**MongoDB**)
 - Postgres Distributed (**EDB**)
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LANGUAGES

- **Portuguese** - Native
- **English** - Advanced
- **French** - Basic