

João Vitor Moraski Lunkes

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Skills

- Python | FastAPI (Pydantic, SQLAlchemy, Pytest) | Java | Spring Boot | Node.js | React.js | Next.js | APIs (REST, gRPC) |
- NestJS | TypeScript | NATS JetStream | Redis | Playwright | WebSockets | Agentic Workflows | HITL (Human-in-the-Loop) |
- Docker | Kubernetes | RabbitMQ | PostgreSQL | MariaDB | Microservices | Event-driven Systems | CI/CD | ArgoCD | Helm |
- Observability (Sentry, Grafana, Prometheus) | Unit Testing | Integration Testing | TDD | Agile Methodologies | Clean Code | SonarQube |
- Google Cloud Platform | Cloud Computing | OOP | Distributed Systems | Cloud SQL | GKE | IAM | VPC | Infrastructure as Code |
- RAG pipelines | Chatbots | LangChain/LangGraph | Vector Databases (pgvector) | AI-assisted coding (Cursor, Claude Code) |
- Frontend | Backend | Full-stack | English (Intermediate), Brazilian Portuguese (Native)

Experience

Senior Software Engineer

[AdoptAI](#)

United States, USA 03/2026 - Present

- **About the company:** A technology company focused on building advanced AI agents and the underlying infrastructure required to power autonomous, enterprise-grade AI workflows.
- **Designed and implemented a Kubernetes-native service stack to manage persistent authenticated browser sessions**, enabling AI agents to seamlessly **bypass MFA, CAPTCHAs, and complex login flows through automated Human-in-the-Loop (HITL) interventions**.
- **Architected a highly resilient, event-driven system using NestJS, Python (FastAPI), and NATS JetStream**, managing complex state machines and ensuring the reliable processing of durable events across microservices.
- **Engineered a robust browser automation pipeline using Playwright** with dual-mode streaming (headed VNC and headless CDP), **optimizing pod resource consumption** and providing real-time remote debugging capabilities.
- **Secured the infrastructure by enforcing strict security postures**, including AES-256-GCM encryption for artifacts (cookies, tokens) stored in **MinIO, OAuth 2.0 Client Credentials** for agent access, and **multi-tenant isolation**.
- **Accelerated the end-to-end full-stack development** lifecycle by adopting an AI-native approach, heavily utilizing agentic tools like Cursor and Claude Code to deploy scalable solutions across **Azure and AWS (Amazon Web Services)**.

Software Engineer

[Magalu Cloud](#)

São Paulo, SP, BRA 05/2024 - 03/2026

- **About the company:** **Public cloud provider** within the Magazine Luiza ecosystem, supporting **1,200+ external clients** and workloads for a platform with **35M+ active users**.
- **Designed and implemented an event ingestion system** based on **CloudEvents**, processing **millions of events daily** using **Python (FastAPI)** and **RabbitMQ** in a **fully asynchronous architecture**.
- **Built a fault-tolerant event pipeline** ensuring **no data loss** through **idempotency, retry strategies, dead-letter queues (DLQ), and quorum queues** for persistence and consistency.
- **Improved database scalability and performance** using **PostgreSQL optimizations**, including indexing, partitioning, replication, and connection pooling, enabling stable operation under high load.
- **Developed and maintained CI/CD pipelines** with **GitLab, ArgoCD, Docker, and Helm**, **reducing deployment time from ~20 minutes to ~5 minutes** and enabling consistent multi-environment releases.
- **Implemented observability from day one** using **Prometheus, Grafana, FluentBit, and Sentry**, significantly **improving debugging speed and incident resolution** through **full visibility into logs, metrics, and traces**.
- **Defined and documented the standard for asynchronous communication** using **RabbitMQ**, enabling adoption of **event-driven architecture across 11+ teams** and reducing coupling between services.
- **Led the development of the user asset service** using **Python, FastAPI, and PostgreSQL**, providing a critical component for auditing current product snapshots.

Software Engineer

[Onsafety](#)

Maringá, PR, BRA 11/2020 - 05/2024

- **About the company:** **B2B SaaS platform** for Occupational Health and Safety (OHS), serving **15k+ users** with a **multi-tenant system** handling complex regulatory workflows.
- **Led the design and development of core system modules** (document management, work orders, accident investigation) using **Java (Spring Boot), Node.js, and React**.
- **Increased unit and integration test coverage from ~0% to 90% over 6 months** by introducing **SonarQube**, reducing technical debt and improving code quality across the system.
- **Refactored critical database queries** for high-load endpoints, replacing inefficient ORM usage with **optimized SQL in MySQL/MariaDB**, **improving performance by 40%**.
- **Built and maintained BI dashboards** using **Metabase and BigQuery**, enabling data-driven decision-making for clients and internal teams.
- **Improved UX** for thousands of non-technical users by redesigning key interfaces, **reducing support overhead** and improving usability of critical workflows.

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Education

Bachelor of Computer Science

[Federal University of Technology](#)

*Campo Mourão, PR,
BRA*

03/2021 - 06/2026

- Bachelor's Degree in Computer Science, with subjects such as Data Structures and Algorithms, Databases, Web/Mobile development, Software Architecture, Software Engineering, Operational Systems, Computer Networks, Computer Architecture.

High School with Technical Diploma

[Federal University of Technology](#)

*Campo Mourão, PR,
BRA*

03/2017 - 12/2020

- High school with a focus on computer science, with subjects such as algorithms, databases, operating systems, web development, computer networks.