

Vitor Diogo Alves

Brazilian

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Portfolio: <https://vitoralves.github.io/portifolio/>

PROFESSIONAL SUMMARY

Senior Fullstack Software Engineer with 10+ years of experience designing scalable enterprise applications, modernizing legacy platforms, and delivering cloud-native solutions for global companies including Uber. Strong expertise across React, TypeScript, Java, Python, FastAPI, Spring Boot, microservices and distributed systems.

Over the past year I have expanded my expertise into Production Generative AI Engineering by dedicating 15-20 hours per week to building and deploying AI applications outside my professional work. Hands-on experience includes OpenAI Responses API, AWS Bedrock, Docker, Terraform, Vercel, prompt engineering, multi-agent systems, cloud deployment, CI/CD, and production-ready AI architectures with observability and guardrails.

Known for quickly learning emerging technologies and applying them to solve real business problems while maintaining high engineering standards.

PROFESSIONAL EXPERIENCE

Jan 2026/present - Fullstack Labs / Domo

- Accelerated the migration of a legacy VB-based vehicle inspection platform across multiple U.S. states to a modern React and TypeScript architecture by deeply integrating Cursor and autonomous AI agents into the development lifecycle.
- Engineered a comprehensive library of custom AI "skills" (markdown-based architectural prompts) to standardize and automate the generation of complex UI components, state management, and Redux workflows, ensuring team-wide architectural consistency.
- Increased development velocity by utilizing AI to rapidly implement complex, multi-tenant frontend requirements, including automated form validation, dependent dropdowns, and responsive grid layouts within a shared monolithic repository.
- Collaborated in a cross-functional Agile team, championing AI-assisted unit testing with Jest and React Testing Library to ensure high reliability while maintaining a rapid release cadence.

Jan 2022/Dec 2025 - Fullstack Labs / Uber (San Francisco/California)

- Served as the sole frontend engineer for Medley, Uber's internal integration platform used by engineering and business teams to create, schedule, and manage Apache Camel integration workflows. Led the modernization of the platform by migrating legacy React code to a TypeScript, Hooks, and component-driven architecture.
- Defined the frontend architecture, including folder organization, shared hooks, Context-based state management, testing strategy, code splitting, and reusable component patterns, improving maintainability and enabling scalable feature development.
- Owned the design and implementation of an AI-assisted DSL generation feature that allowed non-technical users to generate Apache Camel parsing commands from natural language. Implemented both frontend and backend components and reduced support requests in the internal help channel from 2–3 per week to zero.
- Led the development of a configuration-driven application framework that generated complete internal applications from JSON definitions, allowing teams to rapidly build business applications while leveraging Medley's existing integrations and infrastructure.

- Contributed to Java/Spring Boot services supporting Medley, reviewed pull requests, and mentored teammates during knowledge transfer to ensure long-term maintainability of the platform.
- Reviewed pull requests, mentored engineers during knowledge transfer, and helped define frontend architecture and engineering best practices across the team.

May 2019/Jan 2022 - Luizalabs.

- Architected the migration of a legacy Ruby on Rails monolith to a highly scalable, event-driven microservices architecture utilizing Python (Flask) and Google Pub/Sub.
- Engineered and deployed robust, containerized full-stack services (React, Python) to Kubernetes clusters via automated GitLab CI/CD pipelines.
- Established stringent testing standards across the team (Jest, Pytest), achieving ~80% coverage and significantly reducing regressions across critical supply chain workflows.

Oct 2015/May 2019 – Eddydata Tecnologia e Gestão.

- Spearheaded the architectural evolution of a comprehensive college management platform, transitioning legacy data management modules into modern Java Spring Boot services.
- Developed a cross-platform mobile application (Ionic) and responsive administrative interfaces (Angular), demonstrating early adaptability in adopting modern frameworks to solve complex business needs.

PRODUCTION AI PROJECTS

Outside of my professional work, I dedicate approximately 15–20 hours per week to designing and deploying production-oriented AI applications.

- Developing SaaS LLM applications using OpenAI Responses API and AWS Bedrock.
- Deploying AI applications to Vercel and AWS with Docker.
- Designing cloud architectures using Lambda, API Gateway, S3, CloudFront, Route53, SQS and App Runner.
- Infrastructure as Code with Terraform and automated deployments using GitHub Actions.
- Building multi-agent workflows, prompt engineering pipelines, evaluation workflows, observability and AI guardrails.
- Representative projects: https://github.com/vitoralves/vercel_openai, https://github.com/vitoralves/doctor_notes, <https://github.com/vitoralves/twin>
- Additional AI projects available on my GitHub profile.

TECHNICAL SKILLS

AI & LLM: OpenAI Responses API, AWS Bedrock, Prompt Engineering, Agentic AI, Multi-Agent Systems, Tool Calling, AI Guardrails, LLM Applications

Cloud & DevOps: AWS, Lambda, API Gateway, S3, CloudFront, Route53, SQS, App Runner, Docker, Terraform, GitHub Actions, Kubernetes, Vercel

Languages: TypeScript, JavaScript, Python, Java, SQL

Frontend: React, Redux, Next.js, Angular, Flutter, Ionic

Backend: Spring Boot, FastAPI, Flask, REST APIs, Microservices

Databases: PostgreSQL, Redis

EDUCATION

B.Sc. Information Systems - UniFacef (2016)