

# Rodrigo Ferraz Villaca

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## PROFESSIONAL SUMMARY

Senior AI Engineer at AFS Logistics - architect and implementer of the company's multi-platform SDLC automation agent suite (same agents run on both Claude Code and Codex) and its LangChain-driven AI integration layer. Works across all four major coding-agent runtimes - Claude Code · Codex · Antigravity · OpenCode - and designs agents at the abstraction level that keeps them portable. Also author and maintainer of the open-source @narailabs agent-engineering stack on GitHub and npm. 25+ years polyglot - web, mobile, cloud, and compliance-heavy production systems.

## CORE COMPETENCIES

Agentic AI Systems

LangChain / LangGraph

Claude Code · Codex · Antigravity · OpenCode

SDLC Automation

RAG (pgvector + ChromaDB)

Multi-agent Orchestration

AI Integration Architecture

TypeScript · Java · Python

## WORK EXPERIENCE

### AFS Logistics

Oct 2024 - Present

#### Senior AI Engineer · Senior Software Engineer · Remote

- Designed and implemented the engineering org's multi-platform SDLC automation agent suite - same agents run on both Claude Code and Codex, covering ticket pickup, branching, implementation, code review, and PR shipping.
- Architecting the LangChain-driven AI integration layer - pipelines, structured-output schemas, and model-selection abstractions consumed by services in Java, TypeScript, Python.
- Own the platform's RAG infrastructure: pgvector in Postgres for tenant-partitioned semantic search over operational client/carrier data; ChromaDB as the SDLC agents' coding-standards knowledge base.
- Established the engineering standard: TDD-driven agentic implementation, structured plan files, verification-before-completion gates, and a runtime-agnostic abstraction layer so the org isn't locked to one coding-agent vendor.

### InfoMagnus

May 2021 - Sep 2024

#### Senior Architect / Lead Developer · Remote (Los Angeles, CA)

- Returned to lead architecture across multiple SaaS engagements after a year at Nortal; consulting work across several different clients.
- Continued work on the same medical prescription app developed earlier, adding multiple Ionic/Capacitor custom native plugins in Java and Swift for VoIP, 2FA, cryptography, and structured debug logging.
- Implemented OAuth + identity verification with id.me and LexisNexis; WCAG, Touch ID, NFC on mobile.
- Serverless on AWS (Lambda, RDS, Aurora, DynamoDB, Route53 SDK); GCP/Firebase push. Backends in Node.js, .NET Core, Java Spring Boot, PHP. React, Next.js, Redux across product surfaces.

### T-Mobile (via Nortal)

May 2020 - May 2021

#### Senior Software Engineer · Remote (Seattle, WA)

- Senior Angular developer on T-Mobile's public shop - migrated workflows across Angular 7 → 9.
- Built framework-level code and core components used throughout the checkout flow.
- Built core components for electronic payments and credit validation.
- Backend middleware in Node.js (Hapi); implemented Redis cache.

### InfoMagnus

Jan 2018 - May 2020

#### Senior Consultant / Lead Developer · Remote (Los Angeles, CA)

- Main developer for the Angular framework used across multiple SaaS engagements at a consulting firm focused on regulated-industry software. Angular tech lead mentoring US and India teams (RxJS, TypeScript, NgRx/Akita state management).
- Medical prescription app on Ionic/Capacitor under HIPAA-class and payment-data compliance; also consulted on a large retail-agency software platform and a large telecom Angular-based e-commerce. Drove large-scale migrations: AngularJS 1.x → Angular 11.x, Ionic 1 → Ionic 5/6.
- Established NX monorepo patterns and Jenkins/Groovy + GitHub Actions pipelines for multi-app builds. Mobile foundations on Ionic / Capacitor / Cordova for Android + iOS. Backends in Node.js, .NET Core, Java, PHP.

### Banfield Pet Hospital

Feb 2014 - Jan 2018

#### Programmer Analyst · Portland, OR

- Developed hospital management software (.NET Core, .NET Enterprise, C#, WebAPI, WPF, AngularJS).
- Designed and maintained SQL Server databases and stored procedures.
- Unit tests with Karma/Jasmine/Visual Studio; E2E with Protractor.
- Managed projects in both SCRUM and waterfall modes via Team Foundation Server.

## MidialQ

Jun 2003 - Apr 2013

**Co-founder · CIO · Developer · São Paulo, Brazil**

- Co-founded MidialQ (news-clipping and media analysis); ran all technology end-to-end for a decade.
- Independently built an open-source portal that became the company's strategic advantage - widely imitated across the Brazilian industry.
- Full-stack: Python + Zope + Plone (CMS extensions and custom apps), PostgreSQL + MySQL, Linux (Apache, NGINX, OpenLDAP, Postfix, sendmail).
- Front-end work spanning HTML / CSS / early-AJAX JavaScript and Adobe Flash; SEO + content strategy.

## BM&F Bovespa

Aug 2010 - Dec 2011

**Systems Architect · São Paulo, Brazil**

- Enhanced and maintained the .NET and Java frameworks used by all developers at the exchange.
- Validated architecture and infrastructure against industry regulatory standards.
- Cross-team support for software development across departments.

## True Access · Spring Wireless · CSIT · Imares · UOL

Jan 1998 - Jan 2010

**Sr. Security / Infrastructure Analyst · Consultant · Network Administrator · São Paulo, Brazil**

- **True Access** (2009-2010) - infosec consulting and vulnerability analysis for telecoms, banks, and government. PKI engineering for the Brazilian Payment System (interbank/stock-market/insurance online settlements). CheckPoint specialist managing hundreds of devices centrally.
- **Spring Wireless** (2005-2008) - led 10-person infra team; 24x7 telecom datacenter at 99.98% SLA; stood up 20,000-user data centers; custom monitoring plugins in C#/Zabbix; VOIP + Asterisk PABX; international clients across 9 countries (on-site in Brazil, Russia, Poland).
- **CSIT Services** (2000-2003, 2005) - infrastructure consultant for Sony, Microsoft, Adobe, GE, Citibank, BNP Paribas, Pfizer, Caterpillar, and major Brazilian banks; HA solutions for Brazilian Payment System integrations; IP networking, wireless auth, MS/Novell/UNIX interop.
- **Imares** (late 1990s) - NT 4 networking, SQL Server, and Exchange Server administration.

## SELECTED PROJECTS

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### [rodrigo-portland.com - AI-interactive personal resume](#)

Ask anything about my work, or paste a JD into the [fit-check](#) for an instant alignment summary. Try it: [rodrigo-portland.com](#).

### [doc-wiki - github.com/narailabs/doc-wiki](#)

Enterprise LLM-wiki for codebase docs (Karpathy pattern). Runs as Claude Code skills, agents, and TypeScript helpers; ten /doc-wiki:\* slash commands. ORM-entity-to-table mapping across JPA, SQLAlchemy, Django, Prisma, TypeORM, ActiveRecord, EF with Mermaid ER diagrams. Content-hash drift detection so the wiki survives refactors. Primary author.

### [narai-primitives - github.com/narailabs/narai-primitives](#)

Read-only connector library + planning hub for AI agents. Eleven @narai/\* packages (AWS, Confluence, GCP, GitHub, GitLab, Jira, Notion + unified DB across Postgres/MySQL/SQLite/MSSQL/MongoDB/DynamoDB/Oracle) behind a single planner-driven gather() API with unified credential management.

### [terminar - github.com/narailabs/terminar](#)

VS Code extension backed by a Rust server providing persistent terminal sessions that survive crashes, restarts, and disconnects. Length-prefixed JSON over Unix sockets; WebSocket-driven web frontend; HTTP REST for health, metrics, and remote-pair exchange. Sole author.

### [narai-claude-plugins - github.com/narailabs/narai-claude-plugins](#)

Claude Code plugin marketplace for NarAI. Distributes browser-qa (AI QA agent), agentic-tdd (TDD with structural enforcement gates and three-stage review), and feedback-loop-builder. Primary author.

### [symphonix - github.com/narailabs/symphonix](#)

Linear-ticket workflow orchestrator based on OpenAI's Symphony pattern. Drives ticket execution through a structured WORKFLOW.md spec - how an agent should pick up a ticket, branch, implement, review, and ship.

## SKILLS

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**Coding-agent platforms:** Claude Code, Codex, Antigravity, OpenCode (skills, agents, plugins, MCP, subagent orchestration; cross-runtime portability)

**Agentic engineering:** multi-agent workflows, tool use, structured output, TDD-driven implementation, verification-before-completion gates

**AI frameworks:** LangChain, LangGraph, AI integration architecture, RAG with pgvector and ChromaDB

**Languages:** TypeScript, JavaScript, Java (Spring Boot), Python, .NET Core / C#, PHP

**Web & Mobile:** Node.js (Express, Nest, Hapi), Angular, React, Vue, Next.js, Ionic, Capacitor, Cordova + native plugins

**Cloud & Data:** AWS serverless (Lambda, RDS, Aurora, DynamoDB), GCP/Firebase, GraphQL, Postgres, MySQL, SQL Server

**DevOps:** CI/CD (Jenkins, GitHub Actions, Docker), Linux / macOS / Windows / FreeBSD / OpenBSD

**Compliance:** medical (HIPAA-class), payments, identity verification, regulated industries

**Leadership:** distributed team leadership across multiple countries and time zones; senior-stakeholder communication; rapid adoption of emerging technologies