# Angelo Santana

## Software Engineer (Backend & Applied AI)

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## PROFESSIONAL SUMMARY

I work across Java and Node.js ecosystems, with a strong foundation in database optimization, systems integration and AI applied to critical processes. I've cut processing times by up to 50% and taken financial routines from 2h to 15min. In my own products I record decisions in ADRs, require test coverage in CI and set load targets before scaling. Graduated in Systems Analysis & Development at FIAP, with a Computer Engineering degree in progress at Univesp.

## TECHNICAL SKILLS

**Backend:** Java, C#, TypeScript, Spring Boot, .NET, Entity Framework, Node.js, Express, NestJS, tRPC, GraphQL, Modular monolith, RabbitMQ, Outbox, REST, OpenAPI, OAuth2 / OIDC, WebSockets, Flyway

**Frontend & UI:** TypeScript, React, Next.js, Angular, Tailwind CSS, Vite, Zustand, TanStack Query

**Databases & ORM:** PostgreSQL, MySQL, OracleDB, MongoDB, SQLite, Redis, Supabase, Firebase, Prisma

**Cloud & DevOps:** AWS, Azure (AZ-204), S3, EC2, Lambda, RDS, Functions, Blob Storage, App Service, Key Vault, Linux, Docker, Kubernetes, Terraform, Ansible, SSH, CI/CD, Git

**Testing & Quality:** JUnit, Spring Test, JaCoCo, xUnit, Vitest, Robolectric, k6

**Mobile:** Kotlin, Jetpack Compose, Room, Expo, React Native

**Applied AI:** LLMs (Claude, Gemini, GPT), RAG, Agents, LangChain, CrewAI, ChromaDB, Pinecone, Hugging Face, ONNX Runtime, Evals, Guardrails, Human-in-the-loop, Prompt Engineering, AI-Assisted Engineering, SDD, Claude Code, Cursor

**Desktop & 3D:** Electron, Avalonia, React Three Fiber, Rapier

**Automation:** Python, Pandas, Selenium, n8n, Make, Zapier

## PROFESSIONAL EXPERIENCE

### Software Developer

NewCAD · Poá, SP · MAR 2026 – PRESENT

- Architecture and implementation of scalable APIs and ingestion/migration pipelines for complex data (3D models) from legacy systems, ensuring transactional integrity, fault resilience and less friction in technical onboarding.
- Standardized full-stack client-server communication with TypeScript and tRPC, establishing end-to-end type safety (static compile-time contracts), reducing integration bugs in production and speeding up the CI/CD cycle.
- Migrated the physics engine to Rapier, fixing tunneling and raising the realism of 3D collisions in React Three Fiber.

### Systems Analyst / Automation

Nulog · Itaquaquecetuba, SP · FEB 2025 – MAR 2026

- Architecture and production rollout of agentic workflows and RAG pipelines for critical financial operations, applying deterministic output validation and error handling, cutting the processing cycle from 2h to 15min (−87% operating time).
- Diagnosed performance bottlenecks (including N+1) and refactored complex SQL queries and indexes on a legacy relational database, cutting processing latency by up to 50% and stabilizing the availability of real-time operational dashboards.
- Robust RESTful APIs in Java + Spring Boot to automate logistics and integrate internal systems.

### Full-Stack Developer (Consulting · Delivered project)

Ebravo Consultoria · Arujá, SP · AUG 2024 – FEB 2025

- Scalable web systems with direct impact on the Arujá City Hall and local population.
- Built the social platform "Vale Reciclar" — exchanging recyclables for the "Vale Verde" currency.
- APIs in Node.js/Express, MySQL integration and Docker for reliable development environments.

### Software Development Intern

Ebravo Consultoria · Arujá, SP · APR 2024 – AUG 2024

- Responsive, interactive interfaces in React with efficient MySQL integration.
- Unit testing and debugging to ensure application stability before deploy.

## PROJECTS

**Pennyworth** · Desktop App — Windows · AI · 2026 · https://github.com/Pennyworth-HQ/Pennyworth
Explains your PC in plain language: storage, safe cleanup, memory and hardware, with an AI butler that never acts on its own.
C# / .NET 10, Avalonia, Native AOT, ONNX Runtime, DirectML, Microsoft.Extensions.AI, xUnit

**Rensei** · Mobile App — Android · Fitness · 2026 · https://rensei.angabss.dev
Workout, nutrition and habit app for comic, manga and anime fans. Local-first: no account, fully offline.
Kotlin, Jetpack Compose, Room, Health Connect, WorkManager, CameraX, ML Kit, Glance

**Vezta** · Platform — Finance · Games · 2026 · https://try.vezta.com.br/showcase
Gamified personal finance: goals and spending limits earn points and levels, solo or in parties with friends and family.
Java 17, Spring Boot, PostgreSQL, Flyway, RabbitMQ, React Native, Expo, Docker

**DeuQuanto** · Site — Calculators · SEO · 2026 · https://deu-quanto.site
28 online calculators on a fully static site: everything runs in the browser and recomputes on every keystroke.
Next.js 16, React 19, TypeScript, SSG, Technical SEO

## OPEN SOURCE CONTRIBUTIONS

**daisy/MathCAT** · Merged PR · https://github.com/daisy/MathCAT/pull/860
MathCAT generates speech, braille and navigation of math for assistive technology. I wrote its CONTRIBUTING.md, the entry guide for newcomers to the project.

**w3c-cg/aria-at** · Reported issue · https://github.com/w3c-cg/aria-at/issues/1420
The W3C group that tests screen reader support. I found a broken link in its welcome kit, and the maintainer fixed it from the report.

## EDUCATION

**Systems Analysis & Development** · FIAP · 2023 – 2024 · Completed · CST
**Computer Engineering** · Univesp · Since 2025 · In progress · 2nd degree
**Electronics Technician** · Etec Presidente Vargas · 2020 – 2022 · Completed

## CERTIFICATIONS

**Azure Developer Associate** · MICROSOFT · AZ-204 · 2026
**Systems Analysis & Web Prototyping** · PROFESSIONAL QUALIFICATION
**Mobile Application Development** · PROFESSIONAL QUALIFICATION
**Web 2.0 Analysis & Design** · PROFESSIONAL QUALIFICATION
**Tech Strategy & Innovation — AI & IoT** · PROFESSIONAL QUALIFICATION

## LANGUAGES

Portuguese, English (C1)