

Marcello Ronald Silva

Full Stack Software Engineer | C#/.NET · React · TypeScript

Goiânia, Brazil (remote) | mronaldjs@gmail.com | [linkedin.com/in/mronaldjs](https://www.linkedin.com/in/mronaldjs) | [Portfolio](#) | github.com/mronaldjs

SUMMARY

Full Stack Software Engineer with 2 years of experience in C#/.NET, React/Next.js and Angular, from requirements gathering to production. Hands-on with REST APIs, PostgreSQL, MongoDB, automated testing, CI/CD, Google Cloud and generative AI integrations (OpenAI and Langflow). Software Engineering student at the Federal University of Goiás (UFG), graduating in 2027.

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer

May 2026 to Present

CognX, technology startup | Aparecida de Goiânia, Brazil

- Lead developer of the company's AI agent platform, in production at a large enterprise client: .NET 10 back end (hexagonal architecture, MongoDB) and Next.js 16 and React 19 front end on Google Cloud Run.
- Built the platform's recruiting and administration modules (users, groups and per-company permissions), with WhatsApp, Langflow and multi-tenant login integrations.
- Built the API and dashboard of an AI-powered recruiting SaaS: ASP.NET Core with TDD and Testcontainers, WhatsApp candidate screening with audio transcription and OpenAI analysis, and subscription billing by card, bank slip and Pix.
- Provide production support for a client's WhatsApp notification service (Node.js): fixed a Meta token renewal bug that blocked all outgoing messages and added Slack alerts.
- Rebuilt the company website in React, TypeScript and Tailwind, with multilingual content and product screenshots using synthetic data to protect client information.
- Gather requirements with clients and write user stories with acceptance criteria (BDD) in Jira.

Software Developer Intern

Oct 2024 to May 2026

Goiás State Department of Administration (SEAD), State Government of Goiás | Goiânia, Brazil

- One of the main front-end developers of [Portal Reutilize](#), launched by the State Government of Goiás in June 2026: a single platform where state agencies list and find idle public assets to reuse, replacing official letters and scattered inquiries.
- On Reutilize, worked from inception (requirements, user stories and prototypes) through the first 10 MVP sprints, using Angular and TypeScript.
- Led the MVP of an internal app for PDF comparison and data extraction (Angular and TypeScript).
- Implemented features in an internal system already in use and contributed components to the Design System.
- Researched CI/CD practices and presented a hands-on pipeline demo on GitHub to the team.

IT Assistant Intern

Jul 2024 to Sep 2024

Linx | SuporTI | Goiânia, Brazil

- Provided technical support to clients and helped deploy and configure systems.

PROJECTS

PyMail Analyser | Python, FastAPI, Next.js

[View on GitHub](#)

- Open source tool that analyzes an inbox via IMAP, scores senders by volume and engagement, and archives or deletes emails in bulk.

- Monorepo with Docker Compose, unit and E2E tests (Playwright) in CI, SSRF protection and rate limiting.

dEnodare | Fake news detection (UFG) | Python, FastAPI, RabbitMQ

[View on GitHub](#)

- Built with my team an event-driven microservice that consumes posts from RabbitMQ, ensures idempotency with Redis, stores reports in Elasticsearch and routes inconsistent cases to human review.
- Structured logs with trace_id, Prometheus metrics and tests with pytest, Ruff and mypy on GitHub Actions.

TECHNICAL SKILLS

Back end: C#, .NET, ASP.NET Core, Node.js, Python, FastAPI, REST APIs, JWT authentication

Front end: TypeScript, JavaScript, React, Next.js, Angular, Tailwind CSS

Data and messaging: PostgreSQL, MongoDB, Redis, RabbitMQ, Elasticsearch

Cloud and DevOps: Google Cloud (Cloud Run, Cloud Build), Docker, GitHub Actions, Git

Testing: xUnit, Testcontainers, pytest, Playwright

AI: OpenAI API, Langflow, prompt engineering, AI-assisted development

Practices: TDD, Scrum, requirements gathering, BDD user stories, Jira

EDUCATION

B.S. in Software Engineering

2023 to 2027 (expected)

Federal University of Goiás (UFG), Brazil

Academic projects

- **Software Deployment:** REST API in ASP.NET Core 8 that notifies clients when stock markets rise or fall, using the Observer, Facade and Strategy patterns, with automated tests. [GitHub](#)
- **Data Persistence:** persistence layer for an auto repair shop in Java 21 with JPA/Hibernate, covering 1:N, 1:1 and N:M relationships, with class and ER diagrams (team of 4). [GitHub](#)
- **Algorithm Analysis and Design:** Python algorithms that build the university class timetable, with their own interface (team of 4). [GitHub](#)
- **Software Design:** Letrar.IA prototype built by two teams (8 students), with a clickable Figma design and app code. [GitHub](#)

LANGUAGES

English: advanced | **Portuguese:** native