

Nicolas Jessé

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EXPERIENCE

AI Engineer - Js spreadsheet

Jan 2025 - Feb 2026

- Shipped across the company's core SaaS (12k+ weekly developers, including Samsung, Deloitte, Johnson & Johnson, and Kawasaki) and open-source products LemonadeJS (~23k weekly npm downloads) and jsuites (~90k weekly npm downloads).
- Core contributor to a natural-language interface for spreadsheets (Intrasheets, internal/beta); exposed 70+ native methods as LLM tools, benchmarked frontier and open-weight LLMs for cost/performance, shipped streaming + tool calling, and used embeddings for tool selection and context retrieval.
- Built a CLI harness using Claude as a test-generation agent against live Excel as a ground-truth oracle, producing 200+ tests per formula and making it tractable to ship and optimize 400+ Excel-compatible formulas (@jspreadsheet/formulas-pro) with up to 2000%+ speedups on worst-case scenarios via per-input-shape specialized code paths.
- Built inline =PROMPT()-style plugins exposing LLMs as spreadsheet formulas (@jspreadsheet/openai, @jspreadsheet/ollama) for hosted and local models; designed a developer-owned proxy pattern so API keys never live in the browser.

Tech Stack: TypeScript, Python, Node.js, Flask, MongoDB, AWS (S3, Bedrock)

Software Engineer - Js spreadsheet

Mar 2023 - Jan 2025

- Contributed across both of Js spreadsheet's open-source component libraries: jsuites (legacy, ~11k to 100k+ weekly npm downloads) and its successor LemonadeJS Studio (reactive rewrite, ~2k to 23k weekly npm downloads), shipping new components, optimizations, and test coverage while helping move pieces of the old library onto the LemonadeJS reactive model.
- Hardened the .xlsx import pipeline (@jspreadsheet/render) by taking a real-world corpus of 400 .xlsx files from all-failing on the first pass to ~10 remaining with only minor styling discrepancies.
- Made the React and Vue.js wrappers (@jspreadsheet/react, @jspreadsheet/vuejs) work cleanly across Vite, Next.js, and full TypeScript.

Tech Stack: TypeScript, JavaScript, React, Vue.js, Next.js, Vite, Node.js, PostgreSQL

Fullstack Software Engineer - Kaeru.dev

Feb 2021 - Mar 2023

- Shipped three full-stack products end-to-end — a bike-shop management system and two farmer-to-consumer marketplaces on React Native (~30 farmers / ~200 buyers); backends and dashboards on AWS EC2, high E2E coverage

Tech Stack: TypeScript, React, Vue.js, Node.js, Express, React Native, Python, Flask, PostgreSQL, AWS

Software Development Intern - IFPB — Instituto Federal da Paraíba

Mar 2019 - Oct 2019

- Contributed to migrating the 1000+-user campus platform from a Django monolith to REST API + Vue.js, and built three internal systems end-to-end (print requests, meal management, absence justifications)

Tech Stack: Vue.js, JavaScript, Python, Django

PROJECTS

LLM Shield

github.com/nicolasjesse/llm-shield

Resilience proxy in front of a flaky upstream, built against the OpenAI API. Three patterns wired together from scratch: idempotency keys in Redis so client retries don't duplicate upstream calls, exponential backoff with jitter on transient errors, and a circuit breaker that trips on upstream error-rate threshold.

Stack: TypeScript, Node.js, Express, Redis, ioredis, Vitest

langgraph-rag-agent

github.com/nicolasjesse/langgraph-rag-agent

Multi-agent RAG system built on LangGraph: a planner agent decomposes a question into sub-queries, a retriever agent runs them against a vector store, and a synthesizer agent assembles a grounded answer with citations. Eval gate in CI runs a held-out QA set against the live graph and blocks deploys on regression. Packaged as a container image, deployed to AWS Lambda behind a key-throttled API Gateway, with ECR double-tagged (Latest + commit SHA) for rollback.

Stack: Python, LangGraph, Docker, AWS Lambda, API Gateway, ECR, GitHub Actions, pytest

EDUCATION

Technologist — Systems Analysis and Development

2020 - 2024 (incomplete)

IFPB Cajazeiras — Instituto Federal da Paraíba

Technical Degree — Information Technology

2015 - 2019

IFPB Cajazeiras — Instituto Federal da Paraíba