

Luis Fletes

SENIOR FULL-STACK ENGINEER

ANGULAR · REACT · PYTHON · AI SYSTEMS

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SUMMARY

Full-stack engineer with 12 years of experience shipping web products end to end, including several years with distributed US teams. Strong across **Angular, React, Python, Node and .NET**, with a lot of time spent on legacy migrations, defining architecture, and raising code quality on existing codebases. Currently working on AI-driven products, and involved in code review and mentoring wherever I land.

CORE SKILLS

FRONTEND	Angular (v9–v19), NGRX, RxJS, React, TypeScript, Material Design, Bootstrap
BACKEND	Python (FastAPI, Alembic), Node.js (NestJS, Express), C# / .NET Core
AI ENGINEERING	Agentic pipelines (ReAct, reflection, planning), LLM orchestration (Gemini on GCP), tool calling, confidence-based output validation, AI-assisted development (Claude Code, Copilot, Figma MCP)
DATA	PostgreSQL, SQL Server, MySQL, MongoDB
CLOUD & DEVOPS	GCP, AWS (Cognito, EC2, S3, RDS), Azure DevOps, CI/CD
TESTING	Playwright, Cypress, pytest, unit & E2E automation
PRACTICES	Architecture definition, code review, mentoring, POCs, pair programming
LANGUAGES	Spanish (native), English C1, Italian B2

EXPERIENCE

Applaudo

JUL 2024 – PRESENT

Software consultancy · Senior Full-Stack Engineer · 3 client projects

INTERNAL AI CONTENT GENERATION PLATFORM · *Python/FastAPI, React, Gemini (GCP)*

- Work across all three layers of the product: the LLM orchestration service, the product backend, and the React frontend.
- Designed and built the agentic pipelines in Python using ReAct, reflection and planning patterns. Each stage (generation, critique, synthesis) is its own node in code calling Gemini on GCP, so the flow stays under our control rather than the model's.
- Added a confidence score to the output, so anything below the threshold goes back for another refinement pass instead of being accepted.
- Set up tool calling with context handed down from the backend layer, which keeps the agent away from direct database access.
- Ship production code through an AI-assisted workflow: Python endpoints and React components generated with agentic tooling, Figma MCP for UI that matches the design, then Playwright runs to check the generated frontend against that design and pytest unit tests on the Python side.
- Proposed and pushed for internal standards around AI-assisted development, including refinement rules for generated code plus frontend and agentic patterns the team picked up.

ANGULARJS → ANGULAR MIGRATION · *U.S. client, professional sports league applications*

- Only engineer on the incremental migration of a legacy AngularJS app to modern Angular, running both frameworks side by side through a hybrid setup while the app stayed live.
- Moved services, components and business logic over progressively. No downtime windows, no roadmap freeze.

GOVERNMENT CUSTOMS & TAX PLATFORMS · *Angular, NGRX*

- Set up the frontend foundation from scratch (layouts, markup, component architecture, NGRX stores). It ended up being reused as the seed for around four other projects in the client's portfolio.
- Worked on national-scale systems in a frontend team of around 7 Angular developers, alongside backend (Spring Boot), architecture, product and design.
- Ran code reviews, built POCs to help settle technical decisions, and mentored junior developers.

Freelance

2023, 2025 – PRESENT

Independent client work, alongside full-time roles

PROPERTY VALUATION PLATFORM · *Angular, .NET, SQL · Nov 2025 – Present*

Brought back directly by the client four years after the original build at Nativo. Ongoing full-stack development on the live platform.

MINIFUNKIDS · *NestJS, PostgreSQL · 2023*

Took over the backend of an in-flight educational platform and stabilized it: added database migrations to a codebase that had none, and swapped the ORM to get versioned schema management working. Picked up NestJS on my own for this one.

Visotrust

MAR 2021 – JUN 2024

Cybersecurity SaaS (third-party risk management) · Senior Frontend Engineer

- Only frontend specialist on a team of five; the other four were full-stack engineers working mostly in Spring Boot. Owned the Angular architecture and reviewed every frontend PR before it merged, at least one a day and usually more.
- Led the migration from Angular 9 to 16, refactoring roughly 80% of the codebase along the way and bringing build times down. Turning on Ivy surfaced a batch of latent problems that ViewEngine had been hiding, and working through those became a large part of the job.
- Pushed for NGRX and implemented it in a codebase that had no state management, then reworked the component architecture around smart/presentational with proper input/output contracts. Less coupling, easier to test.
- Wrote the frontend coding standards and worked through them with the team: comments on smaller PRs, pair programming when a change needed real rework. Kept shipping features and UX improvements alongside the refactor without pausing the roadmap.

Nativo

MAR 2019 – MAR 2021

Software consultancy · Senior Full-Stack Engineer

Property valuation platform for a financial-sector client in Costa Rica, licensed to banks and professional appraisers

- One of two developers on the product. Defined the Angular frontend architecture from the ground up, and those patterns stayed in place with the team that grew after I left.
- Built enterprise authentication on top of AWS Cognito and Azure DevOps to get Active Directory SSO working, which the banking clients needed before they would adopt it.
- Wrote .NET Core APIs and handled database schema changes through migrations.
- Also team lead for two developers on a separate project inside the company.

EARLIER EXPERIENCE

OOQIA 2018 – 2019 · Built the MEAN stack foundation for a fitness platform, with Auth0 and Braintree integrated, plus multi-tenancy.

RAIN 2018 · Cut ETL processing time and built React components for a stock market data platform; also worked on .NET Core endpoints.

Nestrix 2014 – 2018 · Built a complete eCommerce platform end to end: backend, frontend, database design and third-party integrations.

EDUCATION

Universidad Centroamericana — B.S. Systems Engineering, 2015