

EDUARLUIS ESPINOSA GATO

Fullstack Developer & AI Engineer

Huelva, Spain | (+34) 623 167 714 | eeg2990@gmail.com | linkedin.com/in/eeg2990 | portfolio.eduarluisespinosa.dev

PROFESSIONAL PROFILE

Fullstack Developer and AI Engineer with 9+ years of experience designing and building scalable, user-centered web applications with React, Next.js, and Angular. Over the last two years, I have specialized in architecting cloud-based conversational AI solutions on Google Cloud Platform, using Vertex AI, Dialogflow CX, and the Google Agent Development Kit (ADK), including real-time bidirectional voice-streaming integrations between contact centers and live audio models. I am currently building AI agents with LangChain and LangGraph for document extraction and classification, as well as for fleet-usage analytics. I combine deep frontend expertise with backend development and AI solution architecture to deliver end-to-end, production-ready systems for enterprise clients across finance, insurance, energy, travel, and sports.

KEY SKILLS

Frontend & JavaScript: React.js, Next.js, TypeScript, JavaScript (ES6+), Vue.js, HTML5, CSS3, SCSS, LESS, Tailwind CSS, Bootstrap, Ant Design, Angular Material, Responsive Web Design

Backend & APIs: Node.js, Express, Fastify, Python, FastAPI, Ruby on Rails, REST APIs, Microservices

AI & Cloud: Google Cloud Platform (GCP), Vertex AI, Dialogflow CX, Google Agent Development Kit (ADK), LangChain, LangGraph, Generative AI, LLMs, Gemini API, Conversational AI, Real-time Voice/Audio Streaming, Cloud Datastore, Firebase

Databases: PostgreSQL, MongoDB, Cloud Datastore, Firebase

Tools & Methodologies: Git, GitHub, GitLab, Docker, JIRA, Trello, Agile/Scrum, CI/CD, Solution Architecture, Team Leadership

PROFESSIONAL EXPERIENCE

Solution Architect / Fullstack Developer | Emergya — Spain

Mar 2021 – Present

- Leading the development of AI agents using LangChain and LangGraph for automatic extraction and classification of information from PDF and text documents (ongoing project).
- Building an AI agent with LangChain/LangGraph to analyze truck fleet usage for AI-driven fleet-size optimization (ongoing project).
- Built REST APIs with Node.js, Express, and Fastify for backend services across multiple projects.
- Unified the voice and web channels of a conversational agent (Meliá project) into a single AI solution as Solution Architect, migrating from Dialogflow to an architecture based on Google ADK, Python, FastAPI, and real-time bidirectional audio streaming via the Talkdesk Live API.
- Managed complex ADK sessions with database integrations to maintain persistent context and reliable state across user interactions.
- Developed the chatbot and voice solution for Meliá's Contact Center, implementing Python/FastAPI services on top of Dialogflow CX, deployed on GCP.
- Designed the architecture for an internal Carrefour chatbot on Google Chat, using Dialogflow and Playbooks to resolve employee queries.
- Architected a web-search chatbot with AI-generated content summarization, integrating React.js, Node.js, Python/FastAPI, Vertex AI, Dialogflow, and Cloud Datastore.
- Built the new Virtual Office for Naturgy's large-account clients using Next.js, React, Tailwind CSS, and Ant Design for invoice and consumption visualization.
- Built an asset metadata and taxonomy visualization application for Investis Digital, enabling criteria-based search, using Next.js, Tailwind CSS, Firebase Auth, and a REST API connected to a Java backend.
- Developed two Angular applications for Mapfre Comercios, enabling digital verification for business insurance purchases.

- Built a full-stack CMS for UEFA to manage competitions and data consumed by the mobile app, exposing a REST API in Node.js with a React.js frontend.
- Designed a headless architecture for HotelBeds, integrating Next.js with Drupal's REST API to reuse visual components across multiple sites.

Frontend Developer | AC&M Group — FSG, Uruguay

Oct 2023 – Mar 2024

- Improved the loading performance of React components for the UltimateBuilder3D 3D sport-design configurator by optimizing rendering and state management.
- Developed new UI components to visualize design layers, improving the configuration experience, using React.js, Node.js, CSS, and SCSS.

Fullstack / Frontend Developer — Team Lead | Dofleini Soft — Cuba

2017 – 2021

- Led, as Team Lead, the development of an e-commerce application using Next.js and Node.js, from architecture through delivery.
- Designed the base architecture for Leap Brands, a platform visualizing U.S. brand and TV survey results, using AngularJS, Google Charts, and jsPDF.
- Built an administration (back-office) system to manage content across an e-commerce platform, increasing component reuse, with React v15 and Node.js.
- Modernized Escala TM's UI components by applying a new design system, using Angular and SCSS.
- Redesigned key A-Plan Coaching components, improving application usability, with jQuery, CSS3, and Firebase.
- Redesigned BeeLine Reader's views (beelinereader.com), creating reusable components for future functionality, with Ruby on Rails, jQuery, and SASS.

Developer & Architect | Freelance — Cuba

2018 – 2019

- Designed and implemented the initial architecture for three client applications (Orion Analytics, Rotimar, Renalic), establishing reusable base components, with Angular v6–v8, TypeScript, Ruby on Rails, PostgreSQL, and Firebase.

Frontend Developer | Informatics Science University — Cuba

Aug 2014 – Dec 2016

- Developed frontend applications with Angular v1 and v2, integrating backend communication via REST APIs.
- Implemented responsive interfaces with Bootstrap and CSS preprocessors (SASS/LESS).

EDUCATION

Computer Science Engineer | University of Computer Science (UCI) — Havana, Cuba *Aug 2009 – Jul 2014*

LANGUAGES

Languages: Spanish (native), English (B2 — listening, reading, writing, spoken production and interaction)