

Francisco Castellanos

// senior full-stack & agentic engineer

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lo Mexico City · remote

> core stack

AWS React Angular Java 21

C#/.NET SQL Server PostgreSQL

Spring Boot TypeScript

> ai / agentic

Claude tool-use OpenAI MCP RAG

Claude Code OpenSpec subagents

tool-calling

> education

Data Science & ML, Postgraduate

IEBS, Madrid

2020

M.Sc. in Engineering (MCI)

UNAM, Mexico City

2012

B.Eng. Industrial · Systems minor

Tec de Monterrey

2009 · WES-validated (Canada)

> languages

Spanish native

English professional

> summary

Senior Full-Stack Engineer with 10+ years building scalable web platforms and, over the past year, leading agentic (AI-assisted) engineering in production. I design and ship multi-tenant marketplaces on AWS (ECS/Fargate, RDS, S3) with Java/Spring Boot and C#/.NET back-ends, React and Angular front-ends, and PostgreSQL and SQL Server databases — embedding LLMs and agentic workflows both in the product and across the development lifecycle.

> experience

HK Tech — Senior Full-Stack & Agentic Engineer

nov 2025 – present

// early-stage startups · Utah market (Salt Lake City, Sandy)

- > Designed and shipped multi-tenant marketplaces on AWS (ECS/Fargate, RDS, S3, CloudFront, Secrets Manager) with Java 21 / Spring Boot 3.4 back-ends and React 19 front-ends.
- > Delivered the flagship platform through 500+ deployed pull requests with CI/CD gated by migration version, Playwright e2e, and continuous staging/production deploys.
- > Implemented stateless JWT RS256 auth with token rotation/revocation, keys in AWS Secrets Manager, and SSO/OIDC.
- > Embedded LLM features in product: employer verification, candidate ↔ job matching, and CV parsing with OpenAI (strict json_schema).
- > Built and operate an agentic, spec-driven dev flow (Claude Code + OpenSpec) with subagents, Jira and GitHub MCP in the loop, and AI-powered PR review in CI.
- > Built front-ends in React 19 and Angular 19 (TypeScript, Tailwind, TanStack Query, i18n) and integrated Stripe Connect payments.

AudioEnhancement — Software Developer

nov 2024 – nov 2025

// GoLang · AWS · Python – Utah, USA (remote)

- > Engineered a GoLang API on AWS EC2 connected to RDS for robust data-management workflows.
- > Configured monitoring/alerting on AWS Lambda + CloudWatch, cutting outage response time 40%.
- > Implemented SSO with AWS Cognito/Amplify and scaled the platform to 2,500+ schools / 60,000+ users.

> tools

Node.js Docker Kubernetes GCP

Firestore Terraform

> practices

CI/CD spec-driven dev e2e testing

code review Agile/Scrum

> certifications

Scrum Master

SCRUMstudy · 2017

Six Sigma Black Belt

2011

Six Sigma Green Belt

ASU · 2010

ISO 9001 Lead Auditor

2012

> experience (cont.)

XLMedia PLC — Full Stack Developer

may 2022 – nov 2024

// Node.js · React · AWS · GCP – London, UK (remote)

- › Refactored legacy monoliths into serverless microservices (Node.js + AWS Lambda), cutting infra cost 25%.
- › Built and deployed REST microservices across AWS and GCP (Lambda, Cloud Run, Cloud Functions) with React front-ends; +30% advertiser visibility across 10+ sites.
- › Managed Docker/Kubernetes CI/CD and MongoDB Atlas databases.

Kreios — Sr Consultant & Software Developer

may 2018 – may 2022

// C#/.NET · SQL Server · Node.js – Mexico City

- › Built insurance policy-administration systems in C#/.NET with SQL Server for AXA XL (XL Catlin) and AXA Seguros México.
- › Built scholarship & course-equivalence platforms for Aliat (52 campuses, 12k students) with MEAN, OCR (Google Vision) and AI course assignment; an AXA NLP chatbot; and UIPath RPA.
- › Developed Node.js REST/micro-services (JWT, PM2, Nginx); automation cut response time 50% and lifted client satisfaction 15%.

STRATIS — Senior Process Business Consultant

sep 2016 – may 2018

// BPMN · Scrum – Mexico City

- › Led business analysis for the XL Insurance Mexico account: 120+ BPMN diagrams and 250+ process/automation improvement opportunities via lean analysis.

AIG — Change Agent (WoW Navigator)

nov 2013 – may 2016

// process transformation – CDMX · New York · LatAm

- › Drove operational transformation across underwriting, marketing and transactional teams in the US and Latin America — diagnostics, process maps, SOPs and structured problem-solving workshops across four initiatives.

> selected work

- › **CareForce · MaidNDemand · Intern-n-Demand** — production staffing marketplaces (Java/Spring Boot + React 19 + PostgreSQL + AWS + Stripe Connect) with in-product AI and agentic engineering.
- › **p1-aws-ops-assistant** — conversational CLI answering AWS-infrastructure questions via Claude tool-use + boto3.
- › **clockify-automation** — Jira ↔ Clockify sync CLI, published to PyPI (mypy --strict, multi-OS CI).