Applied AI, Agents & Big Data FDE at **AWS** · since 2018

Hands-on builder · since 2006

Carlos Contreras

At AWS, I design and build AI agents, knowledge graphs and voice AI with enterprise teams, from the first workshop to a production-grade pilot.

Cambridge, UK holacarlos.dev linkedin.com/in/carloscontreras

~/work-together

Ways to work together

In my free time and in a personal capacity. I work full time at AWS, so availability is limited.

ON STAGE

Keynotes · Panels

Agents, voice AI and knowledge graphs, usually with a live demo.

HANDS-ON

Half-day workshops

Your team builds a first working agent, side by side.

ADVISORY

Architecture reviews · Pilot sprints

A second pair of eyes on an AI architecture, or a short sprint to a working pilot on your real data.

~/on-stage

On stage

A few of the larger rooms lately. Alongside regular bootcamps, hands-on workshops, customer briefings and AWS Developers videos.

2026 SQLBits, main auditorium
AI Agent Orchestration in Action

2026 AWS Summit Milan, AI Village
From Alert to Action: The AI That Calls You Back

AWS Summit **900+** in the room
Get quicker and more valuable insights from your data, without managing your own data warehouse

2026 SQL community webinar
Automating SQL Server DB Ops & Health Checks with AI Agents on AWS

2025 SQLBits
RCA Agents · Natural Language to T-SQL: Minimising LLM Hallucinations

2025 Internal AWS prototyping conference
Speaker and award winner.

~/day-to-day

What I work on, day to day

With customers, end to end: from shaping the idea with C-level leaders to building it side by side with their engineers, as one team.

Five areas, usually together.

Agentic AI

Multi-agent systems with guardrails, memory and evals.

- Multi-agent & subagents
- MCP & RAG
- Guardrails & evals

Voice AI

Real-time speech-to-speech agents, on the phone and the web.

- Voice agents on real phones
- Speech-to-speech
- Voice auth & barge-in

Knowledge graphs

Graphs that give LLMs structured, explainable context.

- Graph + LLM assistants
- Ontologies
- Text-to-SQL

Big data platforms

Lakes, warehouses and streaming: the foundations the AI runs on.

- Streaming
- SQL & NoSQL

AI-native engineering

Coding agents, spec first, with tests that keep them honest.

- Spec-driven coding agents
- UI/UX testing via Browser Use
- Infrastructure as code

My current favourite stack CODING AGENTS Claude Code · Codex · Kiro · Cline IDE Orca AGENTS Strands Agents · LangGraph · Amazon Bedrock AgentCore · MCP
VOICE Amazon Nova Sonic · ElevenLabs · gpt-live-1 · Twilio OFFLINE, ON THE PLANE Ollama + Qwen BUILD & TEST AWS CDK · Playwright

~/also

Also

Motorsports · Fashion, retail & luxury · Banking, finance & fintech · Insurance & telecoms · Transport & logistics · Vehicle engineering & manufacturing · Real estate & proptech · Energy & utilities · Gaming & entertainment

Teaching & hobbies

COURSES

On pause: not maintained at the moment. Available on request.

Generative AI with AWS Bedrock (Spanish)
Udemy · bestseller

Graph databases, real-time streaming, infrastructure as code
ProjectPro.io courses

HOBBIES

Formula 1 is a passion I often get to work on: with F1 itself, and onsite with two F1 teams.

How Formula 1 uses generative AI to accelerate race-day issue resolution
AWS Blog

Languages

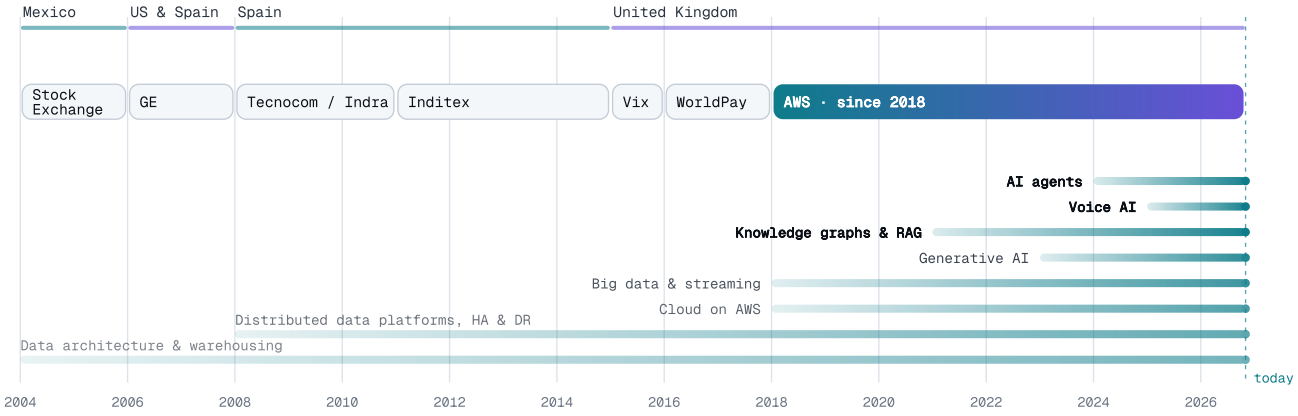
Spanish
Native

English
Full professional

~/path

From systems architecture to agents

Mexico → US & Spain → Spain → United Kingdom. I'm a Prototyping Architect at AWS, aka FDE (Forward Deployed Engineer) externally.

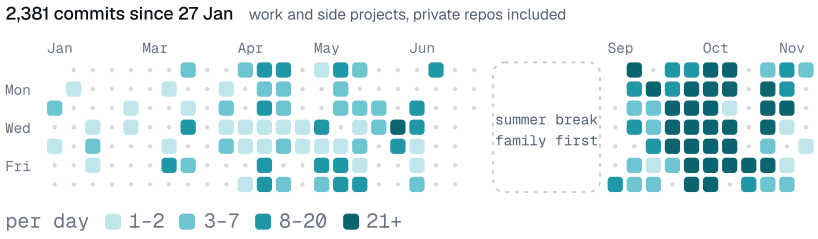


MSc Computer Science BSc Computer Information Systems

AWS certified: AI Practitioner · Security Specialty · Data Analytics Specialty · Solutions Architect Associate · Cloud Practitioner · earlier, Oracle Database

~/shipping

Shipping, week by week



Other recent projects

Lumo360

A side project, built in my free time — voice agents that run first-round job interviews.

Agentic Platforms Guidelines

An engineering playbook for shipping production software with AI coding agents. This site was built with it.

Voice RCA agents

Agents find why a database failed, then phone the on-call engineer (Amazon Nova Sonic speech-to-speech, Twilio). Open source.