



David Aaron Herrera del Castillo

Software Developer & AI Solutions Architect

Software developer and AI solutions architect with experience in the design, development, and implementation of intelligent systems using Microsoft Azure. I combine a strong foundation in full-stack development and data engineering with a strategic vision focused on efficiency and scalability.

Speaker at Data Day 2025, promoting the responsible and practical adoption of artificial intelligence in corporate environments.

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🌐 davidherrera.dev

Experience

BAACC Systems S.A. de C.V. State of Mexico
AI Solutions Architect & Full Stack Developer Sep 2023 - Present

- Designed and developed AI systems that allow users to query enterprise data using natural language.
- Built RAG pipelines and AI agents using Azure OpenAI and MCP for internal decision-making tools.
- Developed backend services with FastAPI and .NET to integrate LLMs with SQL Server databases and enterprise APIs.
- Designed full-stack applications using React and modern backend architectures.
- Deployed and maintained cloud services in Microsoft Azure.

DEC Marketing Mexico City
Web Developer Jr. Mar 2022 - Sep 2023

- Website development and support using HTML, CSS, and JavaScript, as well as content management systems (WordPress, Joomla, and OpenCart).
- Management of hosting, security certificates, and domains through control panels (cPanel).
- Management of corporate email accounts.
- Integration of SEO services (Google Analytics)

Education

Tecnológico de Estudios Superiores de Coacalco Information and Communications Technologies Engineer Sep 2019 - Jan 2024

Specialization in mobile application development.

Platzi Self-taught
Technology and Science 2021 - Present

Volunteering

Data Day 2025 October 21, 2025

Tecnologico de Monterrey

Speaker at Data Day 2025 – “Connie: How we designed an AI-based enterprise copilot for internal processes and strategic decisions”

Certifications

Programming for Everybody (Getting Started with Python) Julio 2022
University of Michigan

Microsoft AZ-900 (Azure Fundamentals) Junio 2021
Microsoft

Profiles

LinkedIn
[david-heca](#)

GitHub
[david-heca](#)

Skills

🧠 AI & Data Systems
RAG, MCP, LLM Agents, Prompt & Context Engineering

📄 Programming
Python, C#, Java, TypeScript, JavaScript, HTML, CSS

📦 Frameworks
.NET, React, FastAPI, Astro, DevExpress

🗄️ Databases
SQL Server, PostgreSQL, Blob Storage

☁️ Cloud
Azure, Railway, Cloudflare

🛠️ Tools
Git, GitHub, Azure DevOps, JWT, Docker, Bun, Linear

🔄 Soft Skills
Problem Solving, Teamwork, Communication, Fast Learning, Adaptability, Critical Thinking, Responsibility, Creativity, Leadership, Empathy, Organization, Time Management

Languages

Spanish
Native



English
B1 - Conversational / Minimum Professional Proficiency

