# Deimer Antonio Romero Madera

**AI Solutions Engineer · Full-Stack Developer · Systems Architecture**

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## PROFESSIONAL SUMMARY

AI-focused Software Engineer with 8 years in technology — spanning full-stack development (.NET, Angular, React/Next.js, SQL Server), SaaS architecture, data analytics (Power BI) and applied AI/ML research. I work AI-first: I use Claude Code and GitHub Copilot daily to ship features faster, refactor with confidence and shorten debugging cycles, always with human review and quality at the center. Currently building the Savvy ecosystem (Savvytrix Solutions), a suite of connected SaaS products. Backed by 6 peer-reviewed publications in AI and analytics.

## AI-ASSISTED ENGINEERING

- Daily use of Claude Code and GitHub Copilot for feature development, large-scale refactoring, test generation and debugging, measurably reducing delivery times.
- Design of agentic and prompt-driven workflows to automate repetitive tasks (documentation, migrations, boilerplate, code review).
- Integration of LLM APIs (OpenAI / Anthropic) into applications; working knowledge of RAG, prompt engineering and AI-assisted code review.
- Pragmatic approach: AI accelerates delivery, but every change is reviewed, tested and validated against clean-architecture and SOLID principles.

## PROFESSIONAL EXPERIENCE

### Software Analyst Developer | Heon Health On Line

*Dec 2024 – Jun 2026*

- Resolved defects and maintained stored procedures in .NET / SQL Server applications, improving stability of production healthcare systems.
- Built and maintained front-end features with Angular, TypeScript, Tailwind CSS and Bootstrap.
- Delivered real-time Power BI dashboards for data capture and interactive analytics.
- Integrated Claude Code into the debugging and refactoring workflow, accelerating bug resolution and code review.

### Technical Support Analyst | Artifex Tech

*May 2024 – Nov 2024*

- Diagnosed and fixed defects in a Java/Vaadin enterprise application, including code updates and stored-procedure adjustments.
- Performed corrective maintenance and collaborated with the dev team to improve system reliability.

### Frontend Developer & Data Analyst | Igloolab

*Sep 2021 – Feb 2024*

- Designed and built interactive web applications (HTML, CSS, JavaScript) delivering seamless user experiences for the pharmaceutical industry.
- Developed a product recommendation system in Python using collaborative-filtering algorithms.
- Created and maintained Power BI reports and dashboards that supported data-driven decisions for stakeholders.

### Researcher & Frontend Developer | University of Cartagena

*Feb 2017 – Dec 2021*

- Built dynamic React front-ends and research software using Python, Java and JavaScript within the INGESINFO research group.
- Co-authored and presented peer-reviewed work at national and international scientific events.
- Managed CRM processes in Microsoft Dynamics 365.

### Software Development Instructor | Fundación Comparte (Funcomparte)

*Apr 2021 – Feb 2023*

- Taught algorithms, programming (Python, Java, JavaScript, C/C++, C#) and database design.
- Designed and delivered an educational robotics workshop for children (Arduino, sensors, microcontrollers).

## TECHNICAL SKILLS

**Languages:** C#, TypeScript, JavaScript, Python, Java, SQL

**Backend:** .NET, Spring Boot, Flask, Django, Node.js

**Frontend:** Angular, React, Next.js, Tailwind CSS, Bootstrap

**Data & BI:** SQL Server, MySQL, MongoDB, Power BI, Pandas

**AI / Modern Dev:** Claude Code, GitHub Copilot, OpenAI & Anthropic APIs, RAG, prompt engineering, AI agents

**Architecture:** SaaS multi-tenant, Clean Architecture, SOLID, REST APIs, cloud deployments

**Practices:** Git, Agile / Scrum, CI/CD, code review

## EDUCATION

**M.Sc. in Digital Resources Applied to Education (in progress)** | University of Cartagena

*Aug 2024 – Present*

**B.Sc. in Computer Engineering** | University of Cartagena

*2018 – 2022*

**Diploma in University Teaching & Didactics (120 h)** | Higher Polytechnic Institute of Colombia

*2021*

## SELECTED PROJECTS

**Savvy Ecosystem — Savvytrix Solutions (side project) —** Founder-led SaaS ecosystem of connected business products (POS, HR, memorials) sharing identity, data and AI services. SavvyPOS live at savvypos.com. Next.js, TypeScript, multi-tenant architecture and LLM integrations. Portfolio: deimerromero.com.

**ContaWeb-BI Financial Dashboard —** Real-time financial management platform (Next.js, React, TypeScript, Tailwind); +30% efficiency in financial reporting. Basis of 2 peer-reviewed papers (2025).

**Church Membership Management System —** End-to-end web app (Python, Java, MySQL, Bootstrap, Power BI) that cut ~30 hours of manual work for 3 users.

**AI for Forensic Computing —** Digital-forensics system (Python, TensorFlow, NLTK, MongoDB) to detect illicit trading on social media, reducing manual investigation workload.

**IoT Temperature Monitoring —** Arduino + sensors + Python/MySQL pipeline for real-time environmental data capture and visualization.

## RESEARCH & LANGUAGES

6 peer-reviewed publications on machine learning, AI and operational analytics (2018–2025). Multiple scientific recognitions in renewable energy, tourism analytics and big data.

Full research record: CvLAC – MinCiencias · Google Scholar

**Languages:** Spanish (native), English (conversational), French (basic)