



DAVID X AVILA

Multi-Disciplinary Professional

CONTACT

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Medellín, Antioquia

TECHNOLOGIES & TOOLS

Full-Stack Development

- Next.js
- React
- Python
- Django
- Node.js
- PHP
- Express.js
- TypeScript
- Tailwind CSS

Databases

- PostgreSQL
- MySQL
- MongoDB
- Redis

3D & Visualization

- Blender
- AutoCAD
- SolidWorks
- KeyShot
- 3ds Max
- V-Ray

Academic & Technical

- LaTeX
- APA/MLA
- Matplotlib
- Jupyter
- Confluence

EDUCATION

Computer Science

Universidad Técnica Particular de Loja

Multimedia

Universidad Casa Grande

Digital Graphic Arts

Instituto Gráfico de Artes y Ciencias Digitales

DAVID X AVILA

Digital Solutions Architect

I design and build integrated digital solutions for complex business challenges. I specialize in architecting high-performance 'Immersive Pre-Sale Portals' for real estate, 'Reproducibility Accelerators' for research, and 'Interactive Product Configurators' for e-commerce.

Key Case Studies

Full-Stack E-Commerce Platform

Built the foundational e-commerce platform for an 'Interactive Product Configurator', enabling real-time product customization and streamlining the sales-to-production pipeline.

Immersive Pre-Sale Portal

Enabled a luxury developer to secure pre-sales for an unbuilt property by architecting a digital portal with photorealistic 3D virtual tours.

Reproducibility & Impact Accelerator

Architected a 'Research Management System' that centralized a lab's data, ensuring 100% reproducibility and saving 10+ hours per researcher per week.

Scientific Publication & Data Viz

Authored and visualized a published research paper on machine learning, demonstrating expertise in complex data analysis and formal academic documentation.

Professional Experience

Academic Advisor & Intl. Representative

2020 - Present | Self-Employed / RED LASIRC DE INVESTIGACIÓN

- Advise and support graduate, doctoral, and professional international students through the research process.
- Negotiate and write agreements, coordinate certifications, and find new affiliates for a research network.

Development & Operations Director

2016 - 2020 | JM Studio / Merwe SA

- Made strategic decisions for product futures, balancing client needs with business goals.
- Established and managed supply chain models, logistics, and operational audits for retail and distribution.

Digital Art Designer & 3D Animator

2000 - 2001 | Telesistema

- Translated concept art into 3D models and created moving images using CGI software.
- Generated special effects for television and advertisements.