

# Katherine Contreras

## Full Stack Web Developer

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**Desarrolladora Full Stack | Aplicaciones Web Escalables | IA Software developer**

## PROFESSIONAL SUMMARY

Results-driven Full Stack Developer with expertise in building scalable, high-performance enterprise applications. Specialized in industrial process automation, complex API integrations, and AI-driven solutions. Proven ability to lead projects from database architecture to modern desktop and web frontend deployment. Recent Web Development graduate with a focus on delivering secure and optimized business solutions.

## TECHNOLOGIES & LANGUAGES

- ✓ Languages: JavaScript, TypeScript, Python, Rust, SQL (PostgreSQL), HTML5, CSS3.
- ✓ Frontend & Desktop: React 18, Next.js, Tauri, Tailwind CSS, shadcn/ui, Zustand, Redux.
- ✓ Backend & DB: FastAPI, Node.js, Express, Supabase, SQLAlchemy, Pydantic, Docker.
- ✓ Languages: English (C1), Spanish (Native), French (A1).

## WORK EXPERIENCE

### Full Stack Developer – Simetra Services S.A | Oct 2025 – Present

- Quotation & Commerce System: Designed and developed a cross-platform desktop application using Tauri (Rust) and React 18 for the construction industry.
- Data Architecture: Built a robust FastAPI (Python) backend with PostgreSQL, leveraging JSONB for flexible and hierarchical cost structures.
- Process Optimization: Implemented automated Excel data ingestion with cleaning/validation logic and real-time calculation engines for direct/indirect costs and KPIs.
- Document Control System: Currently leading the development of a project management platform on Supabase, focusing on man-hour tracking and productivity dashboards using PL/pgSQL and Realtime sync.

### Frontend Developer (Pasantía) – D3SI Feb 2025 – July 2025

- Developed administrative interfaces and financial dashboards using Next.js and Tailwind CSS, improving data visualization for inventory management.

## Projects

- Thesis - Inventory Control System (Next.js & Node.js): Real-time stock management system featuring QR-code scanning, JWT authentication, and role-based access control.
- AI Emotion Detector (TensorFlow & OpenCV): Final project for AI Diploma. Developed a neural network for real-time facial expression recognition, processing images via Haar Cascades for emotion prediction.

## Education

- AS in Web Development – UNCOMA (Graduated Dec 2025).
- Diploma in Artificial Intelligence – IFES Education (feb 2025).
- Full Stack Web Development Bootcamp – Henry.