

# Christian Serrano

Software Engineer | Full-Stack & Mobile Developer  
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Córdoba, Veracruz, Mexico

## PROFILE

Focused on building efficient web and mobile ecosystems. Experienced in operating within Linux environments, prioritizing scalability, clean code, and performance. Results-oriented professional skilled in translating business requirements into maintainable architectures and process automation.

## TECHNICAL SKILLS

- **Frontend & Mobile:** React, React Native, Angular, Ionic, TypeScript, TailwindCSS
- **Backend:** Node.js (NestJS, Express), Java (Spring Boot), Supabase
- **Data & Infrastructure:** PostgreSQL, MongoDB, Supabase, Docker
- **Tools & OS:** Git, Linux, Figma
- **Familiar with:** .NET, Kotlin, Python (Django, FastAPI), MySQL, Firebase, SQL Server

## PROFESSIONAL EXPERIENCE

- **Seven D Construction** January 2026 – April 2026  
*Software Engineer Intern (Remote)* Chicago, IL, USA / Mexico
  - Led the evolution of **7D-Compass** (Angular/Node.js/PostgreSQL), automating payment reconciliation and reducing operational time by **95%**.
  - Implemented a centralized audit engine to reconcile **\$2.3M USD** in transactions, detecting critical financial discrepancies through validation logic.
  - Optimized frontend performance (**3.2x** TTI) and strengthened system security using **JWT/Bcrypt** following **OWASP** standards.
- **Banco Azteca (Hackathon Talent Land 2026)** April 2026  
*Hackathon Participant & Team Lead* Santa Fe, CDMX, Mexico
  - Led the development of **Azkali** during a **48-hour** sprint, creating a behavioral AI copilot to mitigate impulsive spending in Gen Z using **Design Thinking** methodology.
  - Implemented a real-time impulsivity analysis engine using **Gemini 2.5 Flash-Lite**, translating monetary costs into operational opportunity costs.
  - Architected the multi-platform ecosystem integrating **React Native** and **Supabase**, incorporating gamification mechanics.
- **Coppel (Hackathon Talent Land 2025)** April 2025  
*4th Place & Team Lead* Guadalajara, Jalisco, Mexico
  - Built **Coppel Nexus**, a gamified referral ecosystem for corporate expansion (React Native/Node.js).
  - Managed the team by strictly implementing **XP** and **Kanban** methodologies.
- **PepsiCo** May 2024 – August 2024  
*Software Engineer Intern (Remote)* Azcapotzalco, CDMX, Mexico
  - Developed **Master Template Rutas Power App**, a centralized Web App (Angular/MongoDB) replacing legacy Excel workflows.
  - Automated processing of **+100k records**, reducing manual errors to zero.
  - Designed the “Master Template Rutas Power App” solution, optimizing processing time by **70%**.
- **Flack’s Barber Shop** October 2022 – April 2024  
*Full Stack Developer - Freelancer* Córdoba, Veracruz, Mexico
  - Deployed **Flack’s Cut & Connect**, a complete digital ecosystem (Web & Mobile), automating **100%** of appointments.
  - Developed a REST API with Node.js and PostgreSQL to centralize inventory and sales.

## FEATURED PROJECTS

- **IAPEX**  
Angular, Ionic, Spring Boot, Django, PostgreSQL, AI
  - Hybrid AI ecosystem for locating missing patients in healthcare institutions.
  - Implemented a **hybrid information fusion** engine (Facial recognition + Textual).
  - Designed the architecture under strict privacy protocols and medical data security standards.
- **dabetai**  
React Native, NestJS, Expo, Python, Wearables
  - Diabetes preventive platform connecting wearables with medical supervision.
  - Developed real-time risk prediction algorithms for nephropathy and retinopathy.
  - Improved physician-patient response efficiency by **40%** through automated alerts.

- **PuntoFiel**

React Native, Expo, Supabase, TanStack Query, Zustand

- Loyalty application for local businesses with a rewards and coupon system using QR codes.
- Implemented granular data security using **Row Level Security (RLS)** from PostgreSQL on Supabase.
- Designed a scalable interface focused on merchant productivity and client agility.

## EDUCATION

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- **Universidad Tecnológica del Centro de Veracruz**

*B.E. in Software Development and Management*

*April 2026*

Cuitláhuac, Veracruz, Mexico

- **Universidad Tecnológica del Centro de Veracruz**

*Associate Degree (TSU) in Multiplatform Software Development*

*August 2024*

- *Graduated 1st in Class (Final GPA: 9.82/10)*

Cuitláhuac, Veracruz, Mexico

## LANGUAGES

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**Spanish:** Native

**English:** B1 (Intermediate - Active progress)