

Carlos Emmanuel Mendiola Miranda

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Education

Hybridge · Online

Currently enrolled

Concurrently pursuing Software Engineering and Artificial Intelligence Engineering degrees.

CBT San Pedro Tlaltizapan · Tianguistenco, State of Mexico

Graduated July 16, 2026

- Passed the professional examination unanimously and with honors.
- Developed and deployed structured and object-oriented web and mobile applications with persistent storage, including e-learning and e-commerce platform administration.

Experience

FER&REN · Part-time DevOps Consultant

January 2026 – July 2026 · Toluca, State of Mexico

- Established self-hosted high-availability infrastructure with Dokploy, Directus, PostgreSQL, Patroni, and etcd after a cloud-region outage left five Flutter applications unavailable.
- Configured a three-node topology across a VPS, a homelab connected through Cloudflare Tunnel, and an iMac, keeping two active nodes available to remove a single point of failure.
- Installed and secured Debian 13 servers with Tailscale, SSH, and Bash automation for remote administration.
- Deployed a custom Go monitoring agent for real-time infrastructure supervision.
- Migrated the existing Flutter applications to Astro, Preact, and Tailwind CSS, then added vehicle inspection, service control, personnel, finance, and PPF installation checklist applications.
- Maintained and expanded ten production applications as operational needs evolved.

FER&REN · Systems Developer

July 2025 – December 2025 · Metepec, State of Mexico

- Implemented five cross-platform Flutter applications for attendance, PPF quoting, PPF inventory, sales records, and studio income, backed by Supabase.
- Digitized core workflows and configured the data models and business logic around real operational processes.
- Maintained and supported the applications in production.

Leadership & Activities

2 Free · Open-source Personal Finance Application

Developer

- Designed local, self-hosted, and cloud-managed operating modes.
- Built a NestJS and Prisma backend, a React/Next.js web application, and shared authentication with Better Auth.
- Created an Astro landing site and reference Docker Compose deployment for self-hosting.
- Built Linux and Android applications with Tauri, Rust, SQLCipher, and native secure key storage so the product can operate fully offline.

Public Center for Artificial Intelligence Training · Preparatory MOOC

Certified

Completed evaluated modules in networking, cloud computing, cybersecurity, Java, artificial intelligence, and data analysis.

Skills & Interests

Technical

JavaScript, TypeScript, Go, Flutter, Astro, Tailwind CSS, NestJS, Prisma, Better Auth, React, Next.js, Preact, Tauri, Rust, SQLite, PostgreSQL, Docker, SSH, Bash, Linux, Android Studio, Git, Vitest, Playwright

Languages

Spanish (native), English (A2)

Interests

High-fidelity audio, video games, desktop and window-manager customization, free software, personal finance, and self-hosting.