

Hiram Israel Mendoza López

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Computer Engineering professional with experience in software architecture, full-stack development, and the application of CMMI quality standards. Focused on building scalable, secure solutions aligned with formal software engineering processes.

PROFESSIONAL EXPERIENCE

Altertex – Modular Enterprise System

Software Architect & Full Stack Developer

Queretaro, Mexico

feb 2025–jun 2025

Enterprise project developed under a quality-focused approach aligned with CMMI and Disciplined Agile Delivery (DAD), simulating a professional software development firm.

- Designed and implemented a Hexagonal + Clean Architecture, ensuring system scalability and maintainability.
- Developed enterprise modules integrating Node.js backend services, MySQL databases, and a modular frontend architecture.
- Implemented advanced security mechanisms, permission control, and robust validation in REST APIs.
- Applied formal quality practices through CMMI standards, structured technical documentation, and code reviews.
- Participated as Team Leader in the initial phase, performing strategic re-estimations when deviations occurred and coordinating communication with the training partner to ensure technical and organizational compliance.
- Ensured 100% completion of the defined functional requirements.

Querétaro Wushu Kung Fu Association

Full Stack Developer (iOS – SwiftUI)

Querétaro, México

Sep 2024–Dic 2024

- Analyzed functional and non-functional requirements for the development of an iOS mobile application.
- Designed the system architecture using the MVVM pattern, ensuring scalability and clear separation of responsibilities.
- Implemented key features in SwiftUI, optimizing user experience and performance.
- Conducted functional testing and continuous improvements under the SCRUM methodology.
- Deployed the application to the iOS platform while ensuring compliance with quality and security standards.

EDUCATION

Instituto Tecnológico de Estudios Superiores de Monterrey

Bachelor's Degree in Computer Engineering

Queretaro, Mexico

August 2022 - Present

Universidad de Twente

Ingeniería en Tecnologías Computacionales

Enschede, Países Bajos

August 2025 - Feb 2026

ADDITIONAL SKILLS

- Languages: Native Spanish, Fluent English (C1), Basic German (A2)
- Development with JavaScript, Python, SQL, and Swift; experience with Node.js, Express, React, and SwiftUI; MySQL databases; Hexagonal, Clean Architecture, and MVVM architectures; SCRUM and DAD methodologies; application of CMMI standards (PP, REQM, PPQA) and IEEE 829; Swagger documentation; quality control with ESLint; integration of cloud services (AWS S3).