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EDUCATION AND CERTIFICATIONS

JavaScript Security | *Linux Foundation (2026)*

B.Sc. in Computer Engineering | *UNAM (2022)*

B.A. in Linguistics | *BUAP (2017)*

B2 English Certification (Upper Intermediate) | *Faculty of Languages, BUAP (2017)*

PROFESSIONAL EXPERIENCE

Universidad Anáhuac México (Faculty of Social Responsibility)

Full-stack Architecture and Development | April 2026 – May 2026

- Developed a 3D platform for doctoral research featuring a multi-level isometric engine using Three.js and Next.js.
- Implemented client-server collision synchronization for over 125 3D assets in real-time.
- Designed a transactional gamification system backed by Prisma and PostgreSQL.
- Enhanced navigation and immersion in complex scenes through dynamic occlusion and intelligent camera controls.
- Automated data backup and recovery processes to ensure operational continuity.
- Scaled the platform to support up to 2,000 concurrent users utilizing Supabase and query optimization.

Sustainable Furniture & Design Startup (CDMX)

Full-stack Architecture and Development | Oct 2025 – Jan 2026

- Developed a modular 3D configurator for furniture customization via a decoupled architecture using Three.js and TypeScript.
- Implemented AI-assisted customization workflows using LangChain and n8n to automate product configuration and customer service.
- Reduced regression errors by 30% through unit and integration testing with Vitest.

Academia Ecuatoriana de la Lengua

Full-stack Architecture and Development | Jul 2021 – Sep 2024 / Mar 2025 – Present

- Secured critical infrastructure through malware remediation, server hardening, and SSL/HTTPS implementation.
- Scaled a linguistic platform with 10,000+ entries and 10,000+ monthly users, increasing global traffic by 45%.
- Achieved a 93/100 PageSpeed score and reduced load time to ~1.3s through cache optimization, critical asset handling, and render pipeline improvements.
- Reduced operational costs by 30% by migrating to serverless infrastructure.
- Optimized user experience through accessibility, performance, and frontend rendering enhancements.

PROJECTS

Diccionario de Ecuatorianismos — Scalable Linguistic Query Platform

Next.js, Node.js, TypeScript, Vercel

- Built a linguistic query system based on 10,000+ entries by transforming XML data to JSON, optimized for static rendering in Next.js.
- Scaled global traffic by 45% through performance optimization, technical SEO, and static content architecture.
- Achieved 93/100 on PageSpeed Insights and reduced TTFB to ~1.3s using static site generation and Vercel deployment.

BTC Arbitrage Engine — Real-time Algorithmic Trading Simulator (Coding México Challenge 2026)

TypeScript, Node.js, WebSockets, PostgreSQL

- Designed a Bitcoin arbitrage simulation engine capable of detecting trading opportunities across multiple exchanges in real-time.
- Processed low-latency market streams using WebSockets and an event-driven architecture.
- Modeled trade execution, risk, and profitability using real-time financial data to simulate algorithmic strategies.

SKILLS

Languages: TypeScript, JavaScript, PHP, SQL.

Frameworks and Technologies: React, Next.js, Node.js, Three.js, Prisma, PostgreSQL, MySQL, Mongoose, MongoDB, Supabase, Firebase, Tailwind CSS, LangChain, n8n.

Tools and Platforms: Git, GitHub Actions, Docker, DolphinDB, MongoDB Compass, pgAdmin, Claude Code, Postman, Vercel, AWS, Google Cloud Platform.