EDUARDO ENRIQUE ESCAMILLA SALDAÑA

FULL STACK SOFTWARE ENGINEER | REACT / NEXT.JS | NODE.JS | PYTHON | CLOUD & AI INTEGRATION

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PROFESSIONAL SUMMARY

Software engineer with a background in mathematics and experience developing web and mobile applications. I work mainly with React, Next.js, Node.js, Python, SQL, and cloud technologies. My experience has also included data science, mathematical modeling, and, more recently, LLM integrations and automation.

TECHNICAL SKILLS

Languages: JavaScript, Python, SQL, R, C# | **Front End:** React, Next.js, React Native, HTML, CSS | **Back End:** Node.js, Express, Python, REST APIs | **Data:** Supabase, SQL, DynamoDB | **Cloud / DevOps:** AWS, Google Cloud, Azure, Vercel, Docker, Linux | **AWS:** Lambda, API Gateway, DynamoDB, S3, Cognito, SNS, EC2, WebSockets | **AI / Automation:** n8n, Google Gemini, Anthropic Claude, LLM integration, prompt engineering, webhooks

PROFESSIONAL EXPERIENCE

Q Bridge AI | San Pedro Garza García, N.L.

Full Stack Software Developer / Head of Solutions | Mar 2025 – Present

- Build full-stack web applications and dashboards using React, Next.js, Node.js, Express, Python, SQL, and Supabase.
- Built the company's public-facing React website from the ground up, translating Adobe-based designs into a responsive production application; coordinated with the design team and integrated Google Analytics.
- Develop data-driven functionality with Supabase, including schemas, SQL queries, persistence, and authentication, and troubleshoot front-end/back-end/database integration issues.
- Developed and troubleshot LLM-powered workflow prototypes using n8n, Gemini, and Claude, integrating webhooks, databases, WhatsApp, structured model outputs, and healthcare/document-oriented use cases.
- Deployed, maintained, and troubleshot applications across AWS EC2, Google Cloud Red Hat Linux environments, Docker, and Vercel as hosting requirements evolved.
- Provide technical guidance to developers in a small engineering team and work directly with clients and internal stakeholders to understand requirements and support delivery.

Avant Santé | San Pedro Garza García, N.L.

Full Stack Software Developer | Jun 2024 – Nov 2024

- Designed and developed full-stack web applications using React, Python, Node.js, and SQL.
- Built front-end interfaces, back-end functionality, and integrations with databases and APIs based on product and business requirements.

The Blue People | Monterrey, N.L.

Full Stack Software Developer | Jul 2021 – May 2024

- Developed and released production iOS/Android applications with React Native and administrative web applications with React.
- Built Node.js back-end functionality and serverless solutions using AWS and Azure, including Lambda, API Gateway, DynamoDB, S3, Cognito, SNS, and WebSockets.
- Implemented authentication, real-time communication, media uploads, geolocation, analytics dashboards, and user-management functionality.
- Developed geospatial logic to determine whether GPS coordinates fall within geographic regions represented by KML polygons.

Freelance Consultant | Monterrey, N.L.

Software Developer & STEM Tutor | 2018 – 2021

- Developed custom .NET software solutions for clients and mentored students in mathematics, physics, and mathematical-modeling projects.

Interfactura Grupo GDX | Santa Catarina, N.L.

Software Developer | 2017 – 2018

- Applied Python and data-science techniques to software and data-analysis problems; developed front-end functionality with JavaScript, HTML, and CSS and worked with CRUD applications, Linux, Docker, and Git.

KXK Global S.A. de C.V. | Monterrey, N.L.

Financial Modeling Analyst | 2013 – 2014

- Developed quantitative risk models for Public-Private Partnership projects under SHCP methodologies and programmed stochastic simulations in R to estimate financial and project risk.

PRIMSER | Monterrey, N.L.

Manufacturing Consultant Trainee | 2011 – 2012

- Supported Epicor 8 ERP implementations, primarily in manufacturing, and explored Visual Basic and C# customizations for customer-specific functionality.

University of Texas–Pan American | Edinburg, Texas

Research Assistant — Game Theory | 2008 – 2009

- Applied game-theoretic models to seller competition and auction mechanism design; contributed to research associated with the peer-reviewed paper "Seller Competition by Mechanism Design" (Damianov et al., 2011).

SELECTED PROJECTS

ProofGym — Logic & STEM Problem-Solving Platform | *Personal Project* | Live Demo

- Designed and developed an interactive platform for practicing formal reasoning and quantitative problem solving across logic, mathematics, physics, and chemistry.
- Built a Fitch-style formal proof environment with step-by-step validation of propositional-logic proofs and progressive exercises, plus a broader STEM problem-solving arena.
- Implemented progression features including XP, achievements, completion tracking, solving streaks, and custom proof practice.

KickboxWM — Cognitive & Physical Training Application | *Personal Project* | Live Demo

- Designed and developed an interactive application combining configurable dual N-back working-memory tasks with movement-based exercise and HIIT sessions.
- Implemented independent movement and visual-memory streams, configurable N-back difficulty, timed work/rest intervals, audio cues, bilingual announcements, and session-performance tracking.
- Built as an experimental software project exploring the intersection of cognitive tasks, quantitative configuration, and physical training.

EDUCATION

Universidad Virtual del Estado de Guanajuato (UVEG) — Computer Science | 2022 – Present

University of Texas–Pan American (UTPA) — Mathematics | Additional coursework in Economics and Physics | 2007 – 2010

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Advanced Linear Models for Data Science 2: Statistical Linear Models — Johns Hopkins University / Coursera | Credential
- Associate Data Scientist in Python — DataCamp | Credential
- Machine Learning Scientist in Python — DataCamp | Credential
- Data Engineer in Python — DataCamp | Credential
- Bayesian Statistics: From Concept to Data Analysis — UC Santa Cruz / Coursera
- Digital Signal Processing — EPFL / Coursera

RESEARCH & HONORS

Research: Damianov et al. (2011), “Seller Competition by Mechanism Design,” Economic Theory. Publication

Honors: Silver Medal, Mexican Mathematical Olympiad (2003) | 1st Place Overall, Regional Mathematical Olympiad, Nuevo León (2004)