LUIS J. HERNÁNDEZ

+1-214-534-2489 | Contact@LuisEdTech.com | linkedin.com/in/luisjhernandezl
Dallas-Fort Worth, TX | Open to Remote | Portfolio: resume.luisedtech.com

PROFESSIONAL SUMMARY

Instructional Designer and EdTech Developer with 20+ years building AI-powered learning systems for online higher education. Expertise in LMS administration (Canvas, Moodle), full-stack web development (HTML, CSS, JavaScript, PHP), and AI integration (OpenAI API, RAG, embeddings). Proven success developing custom educational applications and scenario-based assessments. Currently developing AI-driven learning systems for bilingual teacher preparation and language development.

TECHNICAL SKILLS

Web Development: HTML5, CSS3, JavaScript, PHP, Python, Node.js, Next.js, REST APIs, WordPress
AI & Machine Learning: OpenAI API (GPT-4, Fine-tuning, RAG), ElevenLabs API, Embeddings, Vector Databases
LMS & E-Learning: Canvas, Moodle, LearnDash, Adobe Captivate, Articulate Storyline 360, H5P, SCORM, xAPI
Frontend: Tailwind CSS, React, Vite, Bootstrap, Responsive Design
Backend & Data: MySQL, PostgreSQL, Supabase, JSON, API Integration
Cloud & DevOps: AWS, DigitalOcean, VPS, Nginx, Linux Server Administration, Git, GitHub

PROFESSIONAL EXPERIENCE

Enabling Learning, LLC | *Director & Lead Instructional Designer* | 2015 – Present
- Design and develop full-stack web applications for language learning and teacher preparation, serving 1,000+ users across US and Latin America
- Build AI-integrated virtual tutors using OpenAI API, RAG, and custom embeddings for personalized learning experiences
- Create online professional development courses and web-based practice systems for bilingual teacher certification (BTLPT)
- Manage cloud infrastructure (VPS, AWS) for hosting educational applications with 99.9% uptime

Britannica Education | *LMS Specialist (Remote)* | Mar 2025 – Oct 2025
- Developed interactive learning experiences using HTML, CSS, and JavaScript within Canvas LMS for professional development courses reaching 1,000+ educators
- Built multimodal content integrating video, audio, and interactive components with WCAG 2.1 accessibility compliance
- Optimized content workflows and troubleshot UX issues, improving course completion rates by 25%

Intercultural Development Research Association (IDRA) | *PD Consultant (Remote)* | 2022 – Sept 2024
- Designed and delivered online professional development for 500+ educators on culturally responsive teaching and technology integration
- Created interactive training modules and assessment tools for multilingual instructional practices using Canvas LMS and H5P

Texas Woman's University | *Visiting Assistant Professor* | 2016 – 2023
- Designed and delivered 6 undergraduate courses in bilingual education and ESL in hybrid and fully online formats using Canvas LMS, Adobe Captivate, and H5P

FEATURED PROJECTS

Veronica AI Tutor | AI-Powered Teaching Assistant
RAG-powered teaching assistant deployed in university courses for bilingual teacher preparation using OpenAI API and embeddings technology.
Technologies: OpenAI API, RAG, Embeddings, Supabase, Node.js

BTLPT AI Practice System | Bilingual Teacher Certification Platform
Full-stack practice platform serving 500+ bilingual teacher candidates with AI-powered feedback and automated scoring system.
Technologies: PHP, JavaScript, MySQL, OpenAI API, WordPress

Praxitude AI | Adaptive Proficiency Platform
Co-founded adaptive proficiency platform measuring professional competence through realistic scenarios with multi-language support for global deployment.
Technologies: Next.js, React, PostgreSQL, AI Diagnostics

ELPS Online Helper | Mobile-Optimized Standards Reference
Mobile web application providing instant access to Texas English Language Proficiency Standards with proficiency descriptors and scaffolds.
Technologies: Next.js, React, Node.js, Tailwind CSS

EDUCATION

Doctoral Candidate (Ed.D.) - Instructional Technology (Second Language Instruction)
American College of Education, Indianapolis, IN | Expected Dec 2026
Dissertation: AI-Powered Practice Systems for Professional Certification

M.S. Computer Education and Cognitive Systems
University of North Texas, Denton, TX | 2010

B.A. Education (Social Sciences)
Universidad Católica Andrés Bello, Caracas, Venezuela | 1996

PUBLICATIONS & LANGUAGES

Publications: Author of two bestselling exam preparation guides: "Conociendo el BTLPT y cómo prepararte para tener éxito: Estrategias y recursos" (Second Edition) and "Navigating the Bilingual Education Supplemental (164): A Comprehensive Preparation Guide and Practice Exam"; Co-author, "AI-Guided Professional Development: A Vygotskian Approach" in Harnessing AI's Potential (IGI Global, 2025)
Languages: English (Native), Spanish (Native), Portuguese (Professional Working Proficiency)