LUIS J. HERNÁNDEZ

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Dallas-Fort Worth, TX | Open to Remote | Portfolio: luisedtech.com

PROFESSIONAL SUMMARY

Instructional Designer and EdTech Developer with 20+ years of experience in higher education, including 7 years teaching undergraduate courses in bilingual education and ESL. Expertise in LMS administration (Canvas, Moodle), full-stack web development (JavaScript, PHP, Python), and AI integration (OpenAI API, RAG, embeddings). Builds custom educational applications and scenario-based assessments. Doctoral candidate researching AI-powered practice systems for professional certification.

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, LTI 1.3
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
- Taught 6 undergraduate courses: Foundations of Bilingual Education, Teaching Content Areas in Bilingual Classrooms, Second Language Assessment & Monitoring, and Teaching Reading & Language Arts
- Designed and delivered courses in hybrid, fully online, and face-to-face formats using Canvas LMS, Adobe Captivate, and H5P

FEATURED PROJECTS

Praxitude AI | Adaptive Proficiency Platform (Founder)
Founded AI startup measuring professional competence through realistic scenarios with multi-language support. Full-stack development with multi-tenant architecture.
Technologies: React, Node.js, TypeScript, PostgreSQL, Prisma, Claude API, LTI 1.3

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

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

ELPS Online Helper | Mobile-Optimized Standards Reference
Mobile web application for 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, PRESENTATIONS & LANGUAGES

Publications: Author of "Cómo Leonardo da Vinci y el chicharrón me hicieron un mejor maestro" (March 2026); "Conociendo el BTLPT y cómo prepararte para tener éxito" (2nd Ed.); "Navigating the Bilingual Education Supplemental (164)." Co-author, "AI-Guided Professional Development: A Vygotskian Approach" in Harnessing AI's Potential (IGI Global, 2025)
Presentations: IFE Conference 2026, Tecnológico de Monterrey — "Reimagining Multilingual Classrooms: AI, Active Learning, and Digital Storytelling"
Languages: Spanish (Native), English (Professional Working Proficiency)