Isaac Patricio Moreno

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EDUCATION

The University of Texas at El Paso El Paso, TX
Bachelor of Science in Computer Science, Minor in Mathematics *Expected Graduation: Dec 2026*

RESEARCH EXPERIENCE

Undergraduate Researcher, Independent Study under Dr. Yoonsik Cheon Sep 2026 – Present
The University of Texas at El Paso – CS 4371 Independent Study *El Paso, TX*
"Does Documentation Help? Evaluating the Role of Javadoc-Style Comments in LLM-Generated Unit Tests via Mutation Testing"

- Conducting a semester-long study of whether Javadoc comments improve bug detection by Claude-generated Java unit tests
- Conducting a literature review on LLM-generated unit tests, code documentation, and mutation testing (in progress)
- Selecting open-source Java projects and learning mutation testing (PIT) for the study's preliminary report
- Planning a three-condition comparison (code only, Javadoc + signature only, code + Javadoc) of Claude-generated tests

PROJECTS

Moreno Captures | *React, Vite, Supabase, PostgreSQL, Vercel, Resend* Feb 2026 – Present

- Built and deployed a full-stack photography business web app with a cinematic portfolio gallery, serving real El Paso clients
- Designed a PostgreSQL-backed booking system with automated Resend email notifications, cutting manual coordination
- Implemented a password-protected admin panel for bookings, media uploads, and portfolio updates without code changes
- Architected a cloud storage pipeline with Supabase Storage and edge functions; deployed on Vercel with continuous delivery

ESPN Hub | *React, Vite, React Router, Recharts, ESPN API, Vercel* Mar 2026

- Built a multi-sport analytics dashboard on ESPN's public REST APIs for live scores, standings, and stats (NFL, NBA, MLB)
- Created interactive Recharts visualizations for at-a-glance comparison of team and player performance across leagues
- Architected a modular React component system with React Router, extensible to new leagues; deployed on Vercel

Code Valkyrie: AI Threat Assessment Platform | *UTEP Hackathon* Oct 2025

- Prototyped an AI threat assessment platform fusing drone video, NLP on 911 transcripts, and real-time risk scoring
- Implemented NLP-based incident severity classification and designed a Figma dispatcher dashboard for live risk indicators
- Delivered a functional end-to-end prototype within 48 hours as part of a multidisciplinary team

EXPERIENCE

Disney College Program Jun 2024 – Jan 2025
Cast Member / PhotoPass Photographer *Orlando, FL*

- Captured 200+ high-quality photos per shift in a fast-paced, high-traffic setting under strict quality and turnaround standards
- Earned 100+ documented guest compliments for professionalism, creativity, and customer experience

Clear View Realty Jun 2021 – Jun 2023
Real Estate Agent *El Paso, TX*

- Closed multiple residential transactions by managing pricing analysis, negotiations, and contract execution
- Applied comparative market analysis to guide data-informed client decisions; built long-term client relationships

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript
Frameworks & Libraries: React, Vite, Node.js, Recharts, React Router, JUnit
Software Testing: Unit testing (JUnit), learning mutation testing (PIT), LLM-based test generation, LLM prompting (Claude)
Databases & Cloud: PostgreSQL, Supabase, Vercel, REST APIs
Machine Learning: Data preprocessing, feature extraction, model evaluation, NLP fundamentals
Tools: Git, GitHub, Figma, VS Code, IntelliJ IDEA, Microsoft Excel, Word, PowerPoint
Concepts: Full-stack development, data modeling, API integration, computer vision basics