

Paulina Méndez López

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Education

Tecnológico de Monterrey (ITESM)

B.S. in Computer Science and Technology

Aug. 2023 - Jun. 2027 (expected)

Guadalajara, Jalisco, MX

Relevant courses: Analysis and Design of Advanced Algorithms, Software Construction

Skills

Programming Languages: Python, C++, SQL, JavaScript, HTML/CSS

Technologies & Tools: MySQL, Git, Github, Node.js, React, Figma, APEX

Spoken Languages: Spanish (Native) and English (B2)

Experience

Oracle

Jun. 2025 – Present

Database Support Intern

Guadalajara, Jalisco, MX

- Supported Oracle Database and cloud infrastructure operations for the Global Customer Support team, ensuring continuity for mission-critical systems used by international clients, reducing manual monitoring by an estimated of 5 hours per week.
- Co-developed a prompt library system in Oracle APEX, JavaScript, and SQL that streamlined AI system upgrade planning, eliminating the need for engineers to manually search through shared drives and documents, resulting in an estimated 20% faster scoping time.
- Restructured and indexed a library of 50+ internal technical documents, improving knowledge retrieval speed by an estimated 40% and reducing onboarding time for new engineers.

Projects

Sudoku Solver Web Application

Aug. 2025

React, Vite, JavaScript, CSS

- Engineered a backtracking solver with $O(1)$ constraint checks that guarantees real-time puzzle validation.
- Built a responsive grid-based UI in React with keyboard navigation, improving usability based on positive feedback from a 5-person user testing group..
- Delivered a fully functional app combining algorithm design with intuitive front-end experience.

Coin Counter

May. 2025

Python, OpenCV, NumPy, Tesseract OCR

- Automated recognition of Mexican coins using contour detection and OCR, achieving 92% accuracy across a curated test set of 20 images.
- Integrated NumPy calculations for instant value computation, eliminating manual counting errors.
- Processed batches of 10+ coins per image, demonstrating scalability for practical applications.

Habit Tracker Application (HackMTY 2024)

Sep. 2024

Oracle APEX, SQL

- Designed and deployed a relational database schema with SQL CRUD operations to store and track daily habits for users.
- Developed interactive dashboards and progress reports in Oracle APEX, enabling real-time visualization of 5+ tracked habits per user.
- Delivered a working prototype in 24 hours with a 4-person team under hackathon constraints, demonstrating adaptability and team efficiency.

Certifications

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate
- Oracle AI Vector Search Certified Professional
- MySQL Implementation Certified Associate