

LEONARDO CERVANTES

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EDUCATION

Monterrey Institute of Technology

B.S. in Computer Science and Technology

3.7/4.0 GPA

- **Relevant Coursework:** Data structures and algorithms, Software Development, Computational Methods and Paradigms

SKILLS

Programming: Python, TypeScript, JavaScript, C/C++, SQL, R, HTML, CSS

Software: Git, Docker, PostgreSQL, MongoDB, Firebase, React, Next.js, Node.js, Express, Django, Flask, AWS

EXPERIENCE

MXREP (Novus Funded)

Aug 2024 – Present

Software Engineering Intern

- Contributed in the developed of a gamified industrial engineering simulator using **React, Node.js, Express, and MongoDB** for **500+ students globally**
- Delivered project **2 months ahead of schedule** through agile development and effective team coordination
- Led code reviews and implemented CI/CD practices that improved team development velocity by 30%
- Co-authored academic papers exploring gamification's impact in higher education

Freelance

January 2024 – Present

Full Stack Developer

- Developed **10+ production web applications** for local businesses, increasing client leads by up to **200%**
- Collaborated with business owners on product requirements, UI/UX design, and deployment strategies
- Implemented responsive designs and modern development practices including version control and CI/CD

Via Diseño

February 2025 – June 2025

Software Development Intern

- Developed a university enrollment platform using **Next.js and PostgreSQL** reducing administrative time by **20x**
- Implemented test-driven development and scalable backend architecture deployed on Heroku
- Designed data visualization dashboards and delivered comprehensive documentation for long-term maintainability

Intel

Apr 2023 – Sep 2023

Software Development Intern

- Led **10+ IoT projects** from ideation to deployment; **won 1st and 2nd place** in innovation competition
- Modernized unused 3D printer with custom **Marlin firmware**, enabling prototyping with a tight budget
- Conducted thesis research on legacy firmware refurbishment and hardware accessibility.

PROJECTS

[Web Browsing MCP Server](#) | Javascript, Node.js, npm

- Published npm package for enabling AI to browse the web with safety measures and structured data extraction

[Scratch Space](#) | TypeScript, Node.js, VScode API

- Shipped VS Code extension for creating code snippets and notes without cluttering workspace

[Pipe Leak Detection App](#) | Python, Flask, TensorFlow, Computer Vision

- Developed computer vision model achieving **85% accuracy** in detecting industrial pipe leaks from image data
- Built complete ML pipeline including data preprocessing, model training, and real-time inference capabilities
- Developed Flask web interface with WebSocket integration for real-time model deployment on a remote server

[Genomic Data Analysis](#) | R, Bioinformatics

- Analyzed large-scale genomic datasets using R and specialized bioinformatics libraries (ape, adegenet)
- Identified DNA sequence variations and created interactive visualizations for biological pattern recognition