Leonardo Daniel Pérez Velázquez

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📖 Education

Instituto Politécnico Nacional (IPN)   Mexico City

Computer Systems Engineering, Bachelor | *Escuela Superior de Cómputo (ESCOM, IPN)*

I work in multidisciplinary and interdisciplinary teams in software and hardware development.   Graduating in Dec 2026

CGPA 3.7/4 (9.2/10 Mexican Scale)

- Relevant courses: Distributed Systems, Native Mobile Application Development, Analysis and Design of Algorithms, Artificial Intelligence, Databases, Software Engineering, Computer Networks, Advanced Math for Engineering.
- Member of the algorithms club and the cybersecurity club.

Dirección General de Educación Tecnológica Industrial (DGETI)   Mexico City

Computer Programming, Technical Degree | *Centro de Bachillerato Tecnológico Industrial y de Servicios #227*

I develop and install application software, as well as web and mobile applications.   2016-2019

💼 Experience

H. Ayuntamiento de Tlalnepantla de Baz Internship | Tlalnepantla de Baz, Mexico, Mexico   Sep 2018-Aug 2019

I completed my professional internship at the Administrative Liaison of the General Directorate of Economic Promotion, and my social service at the public library of the Department of Public Libraries at the Municipal Institute of Culture and the Arts.

- Database management and development, as well as its correct collection.
- Filing and receiving documents, in addition to automating their generation after capturing documents.

🖥 Projects

E-commerce system | Distributed Systems   2026

Developer of an e-commerce system prototype consisting of a web service (back-end) and a web application (front-end) in Azure, in addition to a MySQL instance provided as PaaS, using three different architectures.   (Azure, .NET, Java, MySQL)

- REST web service for Tomcat, using Java for the back-end.
- Serverless with Azure Functions, using .NET for the Triggers.
- Microservices on Kubernetes as well as Cluster IP and Load Balancer services.

Stock market analysis system of the Mexican Stock Exchange | Software Engineering   2025

Developer of a stock market analysis system that supports data-driven decision making.   (AWS, React, MySQL)

- REST web service, as well as Serverless and a MySQL instance as PaaS, in AWS.
- Real-time Mexican Stock Exchange APIs to streamline financial data ingestion and market analysis.

Events access support system | Native Mobile Application Development   2025

Developer of a mobile application that supports the management of university events access.   (Flutter, Android, Azure, MySQL)

- RESTful API design using Azure Functions for the system back-end, and a MySQL instance provided as PaaS with Azure.

Point-of-sale support system | Analysis and Design of Systems   2025

Developer of a system that supports the commercial management of products sold.   (Google Cloud, Java, JS, PostgreSQL)

- REST API design for the system back-end and Web native design for the system front-end. System deployed in the cloud with the Google Cloud service provider, using Git Hub Actions.

Skills

Programming Languages: (4 years): C/C++, Java; (2 year): .NET, C#, Python, PHP, HTML/CSS/JS; (6 months): Dart, R. Wolfram Language.

Technologies: (4 years): MySQL, Unity, Photoshop; (1 year): Google Cloud, Git, Docker, VM (Red Hat, Debian, Windows Server), Android SDK, MatLab, OpenGL; (6 months): Azure, AWS, Kubernetes, PostgreSQL, Oracle SQL, GNS3.

Achievements and Courses

- Participated at ICPC regional contest Gran Premio Mexico 2024, placing within the top 30%.
- Academic excellence.
- Participated at ExpoESCOM 2023 ranking 3rd place.
- Participated at 2024 NASA International Space Apps Challenge.

- Google Cloud Computing Foundations Certificate.
- Getting Started with Linux Fundamentals 9.1 Red Hat course.