

Alfredo Puentes Vargas

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EDUCATION

Instituto Tecnológico de la Laguna

B.Sc. in Computer Systems Engineering

Torreón, Coah.

Aug. 2022 – Dec. 2026

Centro de Bachillerato Tecnológico, Industrial y de Servicios No. 4

Technical High School, specialization in Programming

Lerdo, Dgo.

Aug. 2019 – Jul. 2022

PROJECTS

Salud Universitaria | *HTML, CSS, PHP, Javascript, MariaDB, Figma*

Mar. 2025 – Jun. 2025

- Developed a prototype of an integration to the official website of Instituto Tecnológico de la Laguna that implements a medical appointment scheduling system for students and an appointment management system for specialists.
- Collaborated through *GitHub* and was mentored by a Engineer from the institution.
- The software includes user account management, appointment scheduling, specialist view, admin view and dynamic calendar.

ChambApp | *Android, Kotlin, Java, Firebase, Gradle, Google Play Services*

Sep. 2025 – Oct. 2025

- Implemented a mobile application to promote and increase the visibility of small local services as a solution to the economics problem presented in the regional stage of *HackaTec 2025*.

SKAAN | *Flutter, Dart, Kotlin, FastAPI, Gemini AI*

Oct. 2025

- Mobile application that uses the device's camera to scan, identify, and classify liquid containers in real time using Machine Learning.
- The system automatically determines whether a package complies with airport security regulations, verifying aspects such as the package volume, the condition of the package and its conformity with international regulations.
- Presented at *HackMTY 2025* as a solution to the *Smart Execution* problem presented by the company *GateGroup*.

Insight Flows | *React, NodeJS, Javascript, Gemini AI, MariaDB*

Jun. 2025

- Web application developed as a project during the local stage of *HackaTec 2025*.
- Built a software solution for inventory management, logistics, and business process automation. Implemented *Gemini AI* to provide users with intelligent alerts and recommended actions to streamline company and inventory management. The application generates charts and projections to visually support statistical understanding.

ADDITIONAL EXPERIENCE

HackaTecNM 2025. Participation in the local stage in June, in the regional stage in September, and in the national stage in November.

HackMTY 2025. Participation in the tenth edition of Latin America's largest Hackathon, held in October at Tecnológico de Monterrey. A solution was presented for the problem that *GateGroup* presented to my team and me.

ICPC, Gran Premio de México. Participation in all three qualifying stages, reaching 160th place in the national ranking.

Volunteer Instructor. Delivered workshops on *Fundamentos de Programación* during the Jan. - Aug. 2024 semester, and on *Programación Orientada a Objetos* during the Jan. - Aug. 2025 semester, contributing to the learning of approximately 45 peers in my degree.

Programming Competitions. Participation in the *DataWeek 2025* programming contest organized by Universidad Autónoma de Coahuila and in the national programming contest *Coding Cup TecNM 2024*.

TECHNICAL SKILLS

Languages: Java, C/C++, C#, SQL, JavaScript, HTML/CSS, PHP, Kotlin, Haskell, Bash, Assembly

Frameworks: React, NodeJS, Qt

Development Tools: Git, VS Code, Visual Studio, IntelliJ, NetBeans, Android Studio, Figma