

# 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