# Alfredo Puentes Vargas

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## EDUCATION

**Instituto Tecnológico de la Laguna** — Torreón, Coah.
*B.Sc. in Computer Systems Engineering* — *Aug. 2022 – Dec. 2026*

**Centro de Bachillerato Tecnológico, Industrial y de Servicios No. 4** — Lerdo, Dgo.
*Technical High School, specialization in Programming* — *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 qualification for the national stage.

**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 the first qualifying stage of 2024 and in all three qualifying stages of 2025.

**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