

# Hector S. Lazcano

Full Stack Developer

Last updated in July 2025

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## Summary

Passionate and results-driven **Full Stack Developer** with **7+ years** of experience delivering robust, scalable, and high-performance **web applications** and APIs. Strong foundation in **software architecture**, **API design**, data processing, automated testing, and cloud deployment. Holds a B.Eng. in Electronics Engineering, combining technical precision with a product-focused mindset. Experienced working in **Agile** and **cross-functional teams**, **leading projects**, and **mentoring junior developers**.

Throughout my career, I have collaborated effectively with multicultural teams, including German teams at Volkswagen, Polish engineers at BURY Technologies, Belgian colleagues at Sofico, and currently at **Texas A&M Transportation Institute**. This global experience has strengthened my **adaptability** and **communication skills**, enabling me to thrive in diverse international environments and deliver impactful results.

## Education

**B.Eng. Electronic Engineer (11329606)**

2012-2017

Instituto Tecnológico De Puebla, Puebla, Mexico

## Skills

**Frontend:** React, Next.js, TypeScript, JavaScript, Tailwind CSS, Material UI, Daisy UI

**Backend:** Node.js, Python, Java, Express, REST APIs, Oracle SQL, PostgreSQL, MySQL, SQL Server, MongoDB

**Cloud & Tools:** Azure, Git, GitHub, Bitbucket, CI/CD, VSCode

## Experience

**Texas A&M Transportation Institute**

College Station, TX, USA

*Software Applications Developer II*

Aug 2024 – Present

- **Promoted from Developer I** after demonstrating leadership and technical excellence
- Developed a scalable **Python REST API** to power a real-time reporting system using roadside sensor data, with **JWT authentication** and **PostgreSQL** as the main database
- Developed dashboards from scratch using **Next.js (TypeScript)**, **Tailwind CSS**, and SSR for better performance and SEO
- **Led a development team**, managing tasks, code reviews, and mentoring interns and junior developers

**Texas A&M Transportation Institute**

College Station, TX, USA

*Software Applications Developer I*

Apr 2022 – Aug 2024

- **Configured Linux Azure server** for real-time UDP data ingestion
- Designed initial **PostgreSQL** schema and developed the first Python REST API
- Built first **React** dashboard with **Material UI** and **Azure AD** authentication

**SOFICO**

Puebla, Mexico

*Java Core Developer*

Dec 2019 – Apr 2022

- Built and optimized backend features for Volkswagen Mexico, working on Miles, a large-scale leasing system using **Java**
- Improved data processing and business logic for Miles software features powered by a SOAP API
- Optimized **Oracle SQL** queries to enhance performance and support evolving requirements
- Resolved critical bugs and improved legacy code quality, **navigating a complex codebase with high confidence**

- Collaborated with international teams in **Agile** sprints, delivering solutions across multiple countries and time zones

### **BURY Technologies**

*Automation & Maintenance Engineer*

- Developed **C#** interfaces and libraries for **Modbus** communication and **Mitsubishi PLC** integration for signal and camera monitoring
- **Configured sensors** and developed **production monitoring** software using Delta PLC
- Performed preventive maintenance on production equipment to ensure operational uptime

Mielec, Poland & Tlaxcala,  
Mexico  
Jan 2019 – Aug 2019

### **El Faro Ferreterías**

*I.T. Manager (Freelance)*

- Developed personnel and attendance control system using **Java** and **MySQL**
- Implemented **biometric authentication** with Digital Persona U.are.U 4500 scanner
- Created corporate website and email system
- Redesigned company logo and brand image

Ciudad Mendoza, Veracruz,  
Mexico  
Sept 2017 – Jul 2018

### **Volkswagen de México**

*Betriebsmanagement (Intern)*

- Redesigned door subjection device for VW Golf paint shop, generating \$2 USD savings per device
- Developed GUI for payroll management using **PHP** and **CSS**
- Created interface for production area management reports
- Improved layout and control of personnel locker availability

Puebla, Puebla, Mexico  
Feb 2017 – Aug 2017

## **Languages**

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**Spanish:** Native

**English:** Advanced

**Polish:** Basic

**German:** Basic