

# Hector S. Lazcano

Full Stack Developer

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## Summary

Passionate and results-driven **Full Stack Developer** with 7+ years of experience building robust, scalable, and performant web applications. Proficient in both frontend and backend development using modern technologies including **JavaScript/TypeScript, React, Next.js, Node.js, Express, Tailwind CSS**, and **MongoDB/PostgreSQL**. Strong background in **software architecture, API design and testing**. Holds a B.Eng. in Electronics Engineering, combining technical precision with a product-focused mindset. Adept at working in cross-functional teams and mentoring junior developers.

## Education

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

2012-2017

Instituto Tecnológico De Puebla, Puebla, Mexico

## Skills

**Programming Languages:** JavaScript, TypeScript, Python, Java, SQL, C#

**Frameworks & Technologies:** React, Next.js, Tailwind CSS, Daisy UI, Material UI, Azure, Git

**Databases:** PostgreSQL, MySQL, Oracle SQL, Mongo DB

**Methodologies:** Agile (Scrum), CI/CD

**Tools:** VSCode, Eclipse, Jira, ClickUp, GitHub, Bitbucket, Azure, JSON

## Experience

### Texas A&M Transportation Institute

Software Applications Developer II

Aug 2024 – Present

College Station, TX, USA

Apr 2022 – Present

- Developed a scalable **Python REST API** to power a real-time reporting system using road-side sensor data, with **JWT authentication** and **PostgreSQL** as the main database.
- Created a dashboard from scratch using **Next.js (TypeScript)**, **Tailwind CSS**, and SSR for better performance and SEO.
- **Led a dev team**, managing tasks, code reviews, and mentoring interns.

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

Java Core Developer

Puebla, Mexico

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 code-base 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 up-time.

Mielec, Poland & Tlaxcala,  
Mexico

Jan 2019 – Aug 2019

**El Faro Ferreterias***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