

# Héctor S. Lazcano

Full Stack Developer

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## Summary

Full Stack Developer with over 7 years of experience designing and implementing high-quality, maintainable, and scalable applications. Electronic Engineering background with a passion for emerging technologies and innovative solutions. Strong leadership skills with experience mentoring other developers and organizing task assignments.

## Education

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

2017

Instituto Tecnológico De Puebla, Puebla, Mexico

## Skills

**Programming Languages:** JavaScript, TypeScript, Python, Java, SQL, JSON, 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

## Experience

**Texas A&M Transportation Institute**, Software Applications Developer II

College Station, TX, USA

Aug 2024 – Present

- Lead developer responsible for mentoring other developers, organizing task assignments, and overseeing interns
- Upgraded REST API backend logic with JWT authentication system for improved efficiency and scalability
- Migrated dashboard to Next.js (TypeScript) with server-side rendering for better efficiency and SEO
- Implemented CI/CD pipeline using Github Actions for automated deployment
- Applied modern, responsive design using Tailwind CSS
- Debugged issues across Python, React, and Next.js codebases
- Managed project tracking using ClickUp

**Texas A&M Transportation Institute**, Software Applications Developer I

College Station, TX, USA

Apr 2022 – Aug 2024

- Managed Linux virtual machine in Azure used as server
- Created Python scripts using multithreading to receive and store UDP messages from multiple sensors
- Designed and developed dashboards using React.js and Material UI consuming self-developed API
- Implemented Azure authentication for secure admin dashboard access
- Supported hardware team with development and data queries

**SOFICO**, Java Core Developer

Puebla, Puebla, Mexico

Dec 2019 – Apr 2022

- Developed interfaces and policies for VW Mexico and other global clients
- Created unit tests (JUnit) and new features for Miles software
- Updated software documentation

- Managed tickets and bugs using Jira with Agile methodology
- Created and enhanced Oracle SQL queries for SOAP Web Services
- Utilized Eclipse to debug and optimize complex Java logic

**BURY Technologies**, Automation Engineer

Mielec, Poland  
Jan 2019 – Aug 2019

- Designed C# interface and library for Modbus connection between different PLCs
- Configured sensors for production line
- Developed interface between PC and Mitsubishi PLC for signal and camera monitoring in C#

**BURY Technologies**, Maintenance Engineer

Huamantla, Tlaxcala,  
Mexico  
Jan 2019 – Aug 2019

- Performed preventive maintenance on production equipment
- Developed production monitoring program using Delta PLC

**El Faro Ferreterías**, I.T. Manager (Freelance)

Ciudad Mendoza, Veracruz,  
Mexico  
Sept 2017 – Jul 2018

- 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

**Volkswagen de México**, Betriebsmanagement (Intern)

Puebla, Puebla, Mexico  
Feb 2017 – Aug 2017

- 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

## Languages

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**Spanish:** Native

**English:** Advanced

**Polish:** Basic

**German:** Basic