

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, testing, and cloud deployment**. Holds a B.Eng. in Electronics Engineering, combining technical precision with a product-focused mindset. Adept at working in **cross-functional teams, Agile methodologies**, and mentoring junior developers.

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

Software Applications Developer II

College Station, TX, USA

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

Software Applications Developer I

College Station, TX, USA

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

BURY Technologies*Automation & Maintenance Engineer*

Mielec, Poland & Tlaxcala,

Mexico

Jan 2019 – Aug 2019

- 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

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 subsection 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

Spanish: Native**English:** Advanced**Polish:** Basic**German:** Basic