

# DIEGO VEGA

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Linkedin

Github

Portfolio

## Professional Summary

I'm a Software Engineering with proven expertise in building enterprise-grade frontend architectures and scalable full-stack SaaS platforms. Adept at leading multi-repository design systems for global business units and driving end-to-end product development using modern frameworks. Passionate about bridging complex infrastructure migrations with high-performance, user-centric solutions to deliver measurable business impact.

## Experience

### GE Vernova

Jan. 2026 – Present

SOFTWARE ENGINEERING SPECIALIST | ANGULAR

Remote

- *Design System & Cross-Team Architecture:* Lead development and maintenance of a comprehensive multi-repository design system, serving as the core UI infrastructure for critical business units including MTA, SCADA, WAMS, AEMS and more.
- *Technical Support & Collaboration:* Triage critical defects and engineer high-impact features tailored for external business teams, bridging the gap between library core development and specialized downstream application requirements.

### Quotana

Mar. 2025 – Dic. 2025

FOUNDING ENGINEER | NEXT.JS, REACT, TYPESCRIPT

Querétaro, Mexico

- *SaaS Infrastructure & Architecture:* Architected and deployed a secure authentication system using Clerk, handling OAuth integration and streamlining user onboarding flows for all platform users.
- *Backend & Data Management:* Engineered a robust database schema with Payload CMS to manage 10,000+ tariff codes, freight rates, and user simulation history, enabling complex real-time cost calculations.
- *Product Development & UX:* Led end-to-end development of the SaaS landing page and core import-cost calculator using Next.js 15, achieving an 82% Lighthouse performance score and delivering simulations in under 10 seconds.

### Open Source Integrators

Apr. 2025 – Aug. 2025

JUNIOR TECH LEAD | PYTHON, ODOO, XML, POSTGRESQL

Querétaro, Mexico

- *Module Development & Automation:* Authored critical OCA modules that automated accounting reconciliation and credit limit enforcement, reducing reconciliation time by 60% and streamlining the monthly close process.
- *Codebase Maintenance & Optimization:* Triage and resolved complex support tickets across a multi-repository codebase, remediating defects and optimizing UI/data views through targeted refactors.
- *Open Source Collaboration:* Partnered with international OCA maintainers to uphold high-quality standards by applying pre-commit hooks, rigorous code reviews, and following global best practices.

## Projects

### Ride-Sharing Mobile App

Dec. 2024 – Jan. 2025

REACT NATIVE, EXPO, GOOGLE MAPS API, STRIPE

- *Cross-Platform Architecture:* Developed a scalable ride-sharing application using React Native and TypeScript, ensuring a seamless user experience with reusable components and responsive Tailwind CSS design across iOS and Android.
- *API Integration & Geolocation:* Integrated Google Maps Directions and Geolocation services to power interactive mapping, real-time route computation, and live driver tracking.
- *Full-Stack Security & Payments:* Configured NeonDB for efficient backend storage and implemented a secure payment infrastructure via Stripe, managing tokenization and end-to-end transaction flows.

### TDR Transportes Dashboard

Sep. 2024 – Dec. 2024

REACT, TAILWIND CSS, PYTHON, DASH, MACHINE LEARNING

- *Predictive Analytics & Insight:* Constructed a high-accuracy (87%) predictive ML model using Python to forecast component failures, enabling proactive fleet management.
- *Operational Optimization:* Architected an interactive preventive maintenance dashboard analyzing 6 months of historical fleet data, delivering actionable insights that reduced maintenance costs by 15%.

## Education

### Tecnológico de Monterrey

Graduated Dec. 2025

B.S. IN COMPUTER SCIENCE AND TECHNOLOGY, SOFTWARE ENGINEERING FOCUS

Querétaro, Mexico

## Technical Skills

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**Programming Languages:** Python · JavaScript · TypeScript · SQL · Swift · C++ · HTML5 · CSS3

**Frontend:** React.js · Next.js · React Native · Tailwind CSS · Shadcn UI · Responsive Design

**Backend:** Node.js · Nest.js · RESTful APIs · PostgreSQL · MySQL · MongoDB · NeonDB

**Cloud & DevOps:** Vercel · CI/CD Pipelines · Git · GitHub · Docker · Serverless Architecture

**Tools & Platforms:** Odoo · Payload CMS · Appwrite · Clerk Auth · Stripe · Expo · VS Code · Figma · Postman

**Methodologies:** Agile/Scrum · TDD · Code Review · System Design · Architecture Patterns

**Other:** Data Structures & Algorithms · Machine Learning

## Certifications & Languages

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**Certifications:** Complete Web Development Bootcamp 2024 · Data Science Bootcamp 2024 · iOS & Swift Development · Python Pro Bootcamp

**Languages:** Spanish (Native) · English (Advanced) · French (Beginner)