

JOSÉ LORENZO VALENTIN ARELLANO ORTEGA

Senior Full Stack Developer Durango, Mexico | +52 6181835957| lorenzo.are@gmail.com
LinkedIn: linkedin.com/in/lorenzo-arellano | **GitHub:** <https://github.com/lorenzoarellano> |
Portfolio: doctordigital.mx

PROFESSIONAL SUMMARY

Senior Software Engineer with over **12 years of experience** building scalable web solutions. Expert in **Full Stack development (Vue.js, Node.js, PHP)** and Cloud Infrastructure (**AWS**). Proven track record of architecting digital ecosystems from scratch, including **AI integration (OpenAI)**, real-time systems (**Socket.io**), and industrial IoT automation. Bilingual (Spanish/English B2).

TECHNICAL SKILLS

- **Frontend:** Vue.js (Expert), Nuxt.js, JavaScript (ES6+), TypeScript, Tailwind CSS, Bootstrap, Electron.js.
- **Backend:** Node.js, PHP, Express, RESTful APIs.
- **Databases:** MariaDB/MySQL, Firebase, SQL Server, Sybase, PostgreSQL.
- **Cloud & DevOps:** AWS (EC2, Lightsail), Linux Shell, Plesk, Git/GitHub, CI/CD.
- **Additional:** OpenAI API Integration, Meta WhatsApp API, SEO Strategy, Adobe Creative Suite.

PROFESSIONAL EXPERIENCE

Agtronix Inc. | *Senior Full Stack Developer (Freelance)* | **2019 – Present**

- Architected and deployed a remote irrigation control ecosystem for **over 1 million plants**, integrating Web and Desktop (Electron) applications.
- Developed **Tars**, an AI-driven chatbot powered by **OpenAI API** for real-time climate data analysis and automated querying.
- Implemented real-time monitoring using **Socket.io** and **Firebase** for lightning strike prediction and emergency remote pump shutdown.
- **Key Achievement:** Created high-performance dashboards currently utilized by the **USDA and Lipman Farms** for critical decision-making.

Columbus Networks Corporation (Canada) | Full Stack Developer (Freelance) | 2020 – Present

- Directly responsible for the development and maintenance of **EducationCanada.com** and **Jfairs.com**.
- Engineered digital recruitment solutions and virtual job fair platforms for the Canadian educational sector.
- **Key Achievement:** Maintained platform scalability and modernized the tech stack to handle high traffic during national career fairs.

Durango State Government | Software Developer & Payroll Systems Lead | 2013 – Present

- Lead developer for the government's centralized payroll system, managing payments for over **8,000 employees**.
- Built internal applications for attendance tracking, secure ID printing, and financial reporting.
- **Key Achievement:** Ensured 100% uptime and accuracy for critical state-wide financial operations for over a decade.

CyberTayoltita | Full Stack Developer | 2017 – 2025

- Built a fintech ecosystem from scratch for remote remittance transfers and local payment processing.
- Integrated **Meta's WhatsApp Business API** to automate service status notifications for end-users.
- Developed a custom ERP covering payroll, point-of-sale (POS), and financial reporting.

NOTABLE PROJECTS & SAAS

- **Medicynia | SaaS Founder & Lead Developer**
 - Designed and launched a comprehensive medical records platform (SaaS) tailored for the Mexican healthcare market.
 - Engineered a secure architecture for managing patient consultations, digital prescriptions, and clinical history using **Node.js** and **MariaDB**.
 - Implemented a subscription-based model and a user-friendly interface that prioritizes data privacy and rapid clinical documentation.

- URL: <https://medicynia.com/>
- Doctor Digital | Founder & Technical Lead
 - Founded a digital agency specializing in healthcare professionals, managing over **10+ custom web platforms** for medical specialists.
 - Implemented advanced **SEO strategies** and performance optimizations, consistently ranking clients on the first page of Google search results.
 - Integrated custom booking systems and patient management tools using a modern tech stack (**Vue.js/Nuxt.js**).
 - URL: <https://doctordigital.mx/>
- Guest Management & Wedding Platform | Lead Developer
 - Developed a custom, full-stack event management application using **Vue 3 (Composition API)** and **Tailwind CSS**.
 - Integrated **Firebase** for real-time guest RSVP tracking, data persistence, and automated event notifications.
 - Optimized for mobile-first user experience, managing logistics, location services, and guest interaction for a large-scale event.
 - **Stack:** Vue 3, Tailwind CSS, Firebase Hosting & Firestore.
 - URL: <https://deniseandlorenzo.live/> (my own wedding event)

EDUCATION

- **B.S. in Computer Science** | Instituto Tecnológico de Durango | 2012
- **English B2 Certification** | Platzi English Academy / Instituto Tecnológico de Durango

