



DANIEL SANDOVAL

Software Engineer · Full-Stack Developer

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PROFILE

Information Technology engineering background with a public focus on web applications, developer libraries, browser extensions, Laravel packages, hardware integrations, and experiments.

EXPERIENCE

Full-Stack Developer — Owl Desarrollos

2019-11 — Presente

- Built the [coincitymexico](https://coincitymexico.com) website with e-commerce and payment platform integration.
- Developed the [mercadovending](https://mercadovending.com) website.
- Integrated browser extensions for communication with serial devices.
- Developed internal Laravel packages.
- Created the [coincitymexico](https://coincitymexico.com) intranet.
- Introduced the Laravel framework at the company, increasing development efficiency.
- Integrated serial devices (Jofemar, Lockers, Boardroid) with WebSerial.
- Developed minigames with Phaser 3, Three.js, and Canvas.
- Built bidirectional data synchronization between kiosks and a control panel.
- Created sales sites for vending machines (ETAM, Peekpop, Nadro, etc.).
- Improved existing web applications.
- Introduced Git and GitHub workflows to the company.
- Linux server administration.

Web Developer Intern — Canadian Refrigeration Supplies

2019-01 — 2019-04

- Developed a web application for the company's supply inventory.

IT Support Intern — Control Seguridad Privada Integral

2017-02 — 2017-08

- Technical support for staff.
- Built responsive designs for mobile.

SELECTED PROJECTS

WebSerial Core

[Open-source library](https://github.com/danidoble/webserial-core)

A strongly-typed, event-driven abstraction over Web Serial, WebUSB, Web Bluetooth, and WebSocket transports.

TypeScript · Web Serial API · WebUSB · Web Bluetooth · WebSocket · Node.js

github.com/danidoble/webserial-core

Laravel Firebird

[Open-source package](https://github.com/danidoble/laravel-firebird)

Firebird PDO database driver support for Laravel applications.

PHP · Laravel · Firebird · PDO · GitHub Actions

github.com/danidoble/laravel-firebird

Maestro

[SaaS starter kit](#)

Laravel multi-tenant SaaS starter kit with central/tenant separation.

PHP · Laravel · React · Inertia.js · TypeScript · Tailwind CSS · SQLite · MySQL · PostgreSQL

github.com/danidoble/maestro

Local Site Manager

[Desktop infrastructure tool](#)

Native GNOME desktop app for managing local development sites on Ubuntu/Debian.

Rust · GTK4 · libadwaita · SQLite · Nginx · OpenSSL · axum · Minijinja

github.com/danidoble/site-manager

OPEN SOURCE

@danidoble/toast

Lightweight toast/notification component for the web.

@danidoble/tracerlog

Zero-dependency console log tracer.

@danidoble/webserial-vending-commands

Parser for vending-machine serial command protocols.

Laravel Notification WhatsApp

WhatsApp Cloud API notification channel for Laravel.

Laravel Package Skeleton

Scaffold for new Laravel packages.

Redirector

Chromium extension for redirecting URLs.

TECHNOLOGIES

Languages

TypeScript · JavaScript · PHP · Python · SQL · Rust · Kotlin

Frontend

React · Next.js · Inertia.js · Livewire · Tailwind CSS · Astro

Backend

Laravel · Node.js · Express · FastAPI

Data

MySQL / MariaDB · SQLite · Firebird · PostgreSQL

Hardware & Web APIs

Web Serial API · WebUSB · Web Bluetooth · WebSocket

Infrastructure & Tools

Docker · Git · Linux · Nginx · Celery · MinIO