

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 website with e-commerce and payment platform integration.
- Developed the mercadovending website.
- Integrated browser extensions for communication with serial devices.
- Developed internal Laravel packages.
- Created the coincitymexico 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

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

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