

Oscar David Valencia Alvarez

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Full-stack software engineer with proven experience. Proficient in JavaScript, Node.js, Express.js, MongoDB, software architecture, automated testing, and CI/CD. Capable of designing and deploying scalable products using agile methodologies and version control. Seeking to join a development team where I can contribute innovative solutions.

Experience

Freelance Web Developer

July 2025 — August 2025

Distri Marcas SJG

- Configuration and integration of WooCommerce
- Implementation of wholesale catalog with price rules and advanced categories
- Performance optimization (caching, images, minification)
- Integration of payment gateway and automatic transactional emails

Projects

horarios_app: Schedule Combination Generator

July 2023 — July 2025

Full-stack web application that automatically generates all possible schedule combinations from multiple options, allowing users to explore and compare different alternatives without schedule conflicts.

- Full-stack development with Vanilla JavaScript, Node.js, and Express
- Automatic generation algorithm for all viable schedule combinations
- Intelligent detection of schedule conflicts between events
- Interactive and responsive interface to visualize and compare multiple options

printNelsy: Image Printing Assistant

August 2024 — July 2025

Web application for manipulating, organizing, and printing images using Fabric.js. Includes multiple image upload, drag and drop support, image manipulation (resize, rotate, crop, effects), design creation (collages, grids), and optimized printing with different paper sizes and orientations.

- Advanced image manipulation with Fabric.js
- Intuitive and accessible interface
- Printing optimization (collages, grids, different paper sizes)

Distri Marcas SJG: Wholesale E-commerce

July 2025 — August 2025

E-commerce website developed for a wholesale company using WordPress and WooCommerce. Includes custom catalog, inventory management, and payment gateway.

- Development with WordPress and WooCommerce
- Performance optimization
- Inventory management
- Payment gateway integration

Education

Universidad Surcolombiana

August 2020 — June 2025

Bachelor's Degree in Software Engineering

SENA

February 2018 — January 2020

Technologist Degree in Multimedia Production

Certificates

Diploma in Programming Fundamentals in Python Language

July 2022

Ministry of ICT

Diploma in Basic Programming in Java Language

September 2022

Ministry of ICT

Diploma in Mobile Application Development

December 2022

Ministry of ICT

Scrum Fundamentals Certified

May 2022

VMEdU Inc.

Publications

Development of a Model for Detection and Classification of Diseases in Tomato Plants Using Swin Transformer Architecture *November 2023*

Research Square

This research focuses on developing a model for the detection and classification of diseases in tomato plants using the Swin Transformer architecture. The model aims to surpass the accuracy limitations of current Convolutional Neural Networks (CNN) methods. The study involves constructing a balanced dataset for various tomato plant diseases, evaluating the model's predictions, and comparing its accuracy with CNN-based models.

Languages

Spanish: Native

English: Intermediate

Skills

Frontend: HTML, CSS, JavaScript

Backend: Node.js, Express

Documentation: Swagger

Databases: PostgreSQL, MongoDB

Testing: Jest

CI/CD: GitHub Actions

Version Control: Git, GitHub

E-commerce & CMS: WordPress, WooCommerce