

EMILIANO VOLPINO

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SUMMARY

Proactive **Full Stack Developer** with a strong foundation in Systems Analysis and hands-on experience building scalable web applications. Proficient in **Modern Angular (17+)** and **Backend technologies** (Java/PHP), with a sharp focus on **MVC architecture**, security, and database optimization. Bilingual (English C1/Spanish Native). Distinctive ability to apply **Test-Driven Development (TDD)** and complex logic solutioning, demonstrated through C++ development. Eager to contribute to agile teams with clean, maintainable code.

SKILLS

- **Languages:** Java, JavaScript (ES6+), TypeScript, PHP, SQL, C++, HTML5, CSS3, Python.
- **Frontend:** Angular 17+ (Signals, Standalone Components), Bootstrap, CSS.
- **Backend & Database:** MySQL, Apache, JWT, (JSON Web Tokens), REST APIs.
- **Tools & IDEs:** Google Antigravity, Git, GitHub, VS Code, Postman, Linux (Bash), TDD (Test Driven Development), MVC Architecture, Scrum/Agile.
- **Languages:** Spanish (Native), English (C1 - Advanced).

PROJECTS

Breath Shop | Full Stack E-Commerce | *Angular 17, PHP (Native MVC), MySQL*

- Developed a reactive Single Page Application (SPA) utilizing **Angular 17+ features** (Signals, Standalone Components) for high-performance state management.
- Engineered a custom **MVC Backend in native PHP**, implementing secure stateless authentication via **JWT** and password hashing with **Bcrypt**.
- Built a real-time stock management system that synchronizes the shopping cart with database inventory to prevent over-ordering.
- Designed a secure relational database in **MySQL**, incorporating protection against **SQL Injection** and handling environment variables for security.

El Cisma | Survival Horror Engine & Logic | C++, Raylib, Tau (Testing)

- **Architecture:** Designed a custom game loop and memory management system in C++ without garbage collection, ensuring consistent 60 FPS performance on low-end hardware.
- **AI Logic:** Programmed Finite State Machines (FSM) for enemy behavior, allowing distinct states (Patrol, Chase, Attack) based on player proximity and sound.
- **Quality Assurance:** Applied TDD (Test Driven Development) using the Tau framework to create unit tests for collision detection and inventory logic, reducing regression bugs by 40%.

WORK EXPERIENCE

Sales Manager / Retail | Independent / Online | 2021 – 2025

- Managed end-to-end online sales operations and customer service, maintaining a high satisfaction rate.
- Developed strong soft skills including conflict resolution, effective communication in English/Spanish, and adaptability in fast-paced environments.

EDUCATION

Associate Degree in Systems Analysis | Instituto Tecnológico ORT | 2022 - 2024

- Completed 2 years of core curriculum (Algorithms, OOP, Databases).
- *Relevant Coursework:* Logic, Statistics, Java Architecture.

Associate Degree in Programming | UCES | Present

Web Development | CoderHouse | 2023 (Top 10 of the class)

JavaScript | CoderHouse | 2023

Cybersecurity | CoderHouse | 2024 - 2025