



Juan Vallejo

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of hands-on experience designing and shipping full-stack web applications across the Node.js/NestJS, Next.js, and ASP.NET Core ecosystems. Proven track record delivering production systems for residential management, sports club administration, and university-scale social platforms — owning everything from data modeling to deployment. Comfortable moving between backend architecture, RESTful API design, and modern frontend development, with growing focus on cloud infrastructure and application security. Vice President of the IEEE Computer Society at Universidad Santiago de Cali, combining technical execution with team leadership. Fast learner who adopts new stacks quickly and leverages AI-assisted development workflows to ship reliable software faster.

TECHNICAL SKILLS

PROGRAMMING LANGUAGES

JavaScript TypeScript Python C# SQL PHP Dart

FRONTEND

React Next.js Tailwind CSS Vite HTML5 CSS3

BACKEND & APIS

Node.js Express NestJS ASP.NET Core MVC RESTful APIs WebSockets

DATABASES & ORMS

PostgreSQL MongoDB Prisma Drizzle ORM Entity Framework Core

CLOUD & DEPLOYMENT

AWS S3 Firebase Vercel

DEVOPS & TOOLS

Docker Git GitHub GitLab Linux (Ubuntu) Postman CI/CD

SECURITY & NETWORKING

JWT bcrypt RBAC Secure API Design Network Fundamentals (Cisco)

AI-ASSISTED DEVELOPMENT

Claude Code

FEATURED PROJECTS

Urbanix — Residential Community Management SaaS

React 19 Vite Tailwind CSS NestJS 11 Prisma PostgreSQL Redis WebSockets AWS S3 Firebase

- ▶ Architected a modular multi-role SaaS platform (admin, resident, superadmin, security staff) spanning 25+ backend modules to replace manual, paper-based building administration.
- ▶ Built real-time features with Socket.io and AWS S3-backed document storage, covering visitor logs, common-area reservations, billing, and incident reporting.
- ▶ Designed JWT-secured REST APIs and PostgreSQL data models supporting concurrent multi-tenant residential complexes.

Client project — Codeliance

CDGLOBOS — Sports Club Management System

NestJS · Prisma · PostgreSQL · Next.js 15 · React 19 · Firebase Cloud Messaging · PWA

- ▶ Delivered a full digital operations platform for a sports club, covering player rosters, match scheduling, tournaments, training attendance, and payments across 12 backend modules.
- ▶ Implemented push notifications (FCM), PDF report generation, and an installable PWA experience for players and administrators.

Client project — Codeliance

USConnect (Campus Circle) — University Social Networking App

NestJS 10 · Prisma · Next.js 14 · TypeScript · JWT/Passport · bcrypt

- ▶ Designed a mutual-match social engine with permanent like-based matching, chat-unlock rules, and a real-time campus ranking system for university students.
- ▶ Structured the frontend around a provider/context architecture to keep business logic isolated from presentational components, improving maintainability.

ARVALA-SGPE — Poultry Farm Management System

ASP.NET Core 9 MVC · C# · PostgreSQL 17 · Entity Framework Core · Clean Architecture

- ▶ Designed and implemented a Clean Architecture system (Domain/Infrastructure/Services/Web) to digitize poultry house tracking, egg production, vaccination schedules, and feed inventory.

PROFESSIONAL EXPERIENCE

Backend Developer — Codeliance

Feb 2025 – Present

- ▶ Designed and automated backend workflows for administrative and documentary process management across client products, improving data consistency and reducing manual handling.
- ▶ Contributed to production platforms including a residential management SaaS, a sports club system, and a social media automation tool.

Backend Developer — TechNova Solutions

Apr 2024 – Nov 2024

- ▶ Contributed to building scalable web platforms, including a SaaS application for residential management, by designing RESTful APIs with Node.js, Express, and Prisma over PostgreSQL.
- ▶ Automated internal processes using Python and AutoHotKey and integrated workflows with Google Workspace, while participating in architectural decisions and deployments.

EDUCATION

Computer Engineering (In Progress)

2023 – Present

Universidad Santiago de Cali, Colombia — Member, Comba Research & Development Incubator

CERTIFICATIONS

- ▶ **Cybersecurity & Networking:** Ethical Hacker — Cisco Networking Academy (Verified) · Introduction to Cybersecurity — Cisco Networking Academy (Verified)
- ▶ **Programming:** C# — Ademass Training & Development · Python — Ademass Training & Development
- ▶ **Databases:** Bases de Datos: Generalidades y Sistemas de Gestión — SENA (40h, 2025)

ACHIEVEMENTS & LEADERSHIP

- ▶ Vice President, IEEE Computer Society — Universidad Santiago de Cali (2025 – 2026)
- ▶ Active Member, ETH Cali — Web3 & blockchain hackathon participant (2026 – Present)

LANGUAGES

Spanish — Native

English — B2 (Upper Intermediate)