AGUSTÍN ESTÉVEZ LÓPEZ

Senior Software Engineer | Technical Lead

Java · Spring Boot · Angular · React · REST APIs

CONTACT

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SKILLS

Core Competencies

Business Analysis · Technical Team Leadership · Relational Data Modeling · Requirements Discovery · Database Normalization · Stakeholder Communication

Backend

Java · Spring Boot · Spring · ASP.NET MVC · ASP.NET WebForms · C# · VB.NET · Entity Framework · LINQ · ADO.NET · PHP · Android

Frontend (Familiar)

Angular · React · TypeScript · Knockout.js · JSP · Bootstrap

Testing

JUnit 5 · Mockito · AssertJ · Spring Boot Test (MockMvc, @DataJpaTest) · Vitest · React Testing Library

Database

Oracle · PL/SQL · SQL Server · T-SQL

Architecture

REST APIs · SOAP · XML · WebSocket/STOMP · System Integration · Solution Design · Software Architecture · High-level Design · Low-level Design · Distributed Systems · Android/iOS Integration

Cloud

AWS · EC2 · S3

Tools

Eclipse · IntelliJ · VS Code · Git · SVN · Scrum · Crystal Reports · MS Reporting Services

AI Tools

Claude Code (custom subagents, skills, hooks, MCP servers) · GitHub Copilot · ChatGPT

LANGUAGES

Spanish

Native

PROFESSIONAL PROFILE

Senior Software Engineer and Technical Lead with more than 20 years of experience leading the design and implementation of enterprise solutions using Java, Spring Boot, Oracle PL/SQL, REST APIs, SQL Server, ASP.NET MVC and distributed systems. My career evolved from hands-on development into business analysis, solution design, relational data modeling, systems integration and technical leadership, while remaining directly involved in implementation. More recently, I have adopted AI-assisted engineering with Claude Code, designing specialized agents for testing, security review and code review, while strengthening my hands-on automated testing practice with JUnit, Mockito and Vitest.

PROFESSIONAL EXPERIENCE

Project Leader — Solution Architect | INDRA Sistemas

May 2010 – Present

Mobile Customer Engagement Management System (GCM)

Designed and led the implementation of an enterprise platform that digitized the customer contracting and field inspection process for two electric distribution companies in the Dominican Republic, integrating Oracle PL/SQL batch processing, a Spring-based web application, Android mobile devices and REST APIs to synchronize field inspections with the Commercial Management System (SGC).

- **Led the solution design** end to end, from business requirements through production deployment.
- **Defined the functional scope** in collaboration with business stakeholders and technical teams.
- **Designed the relational data model** and business workflows supporting customer contracting and field inspections.
- **Designed the integration** between GCM and the Commercial Management System through import/export batch processes and validation rules.
- **Defined the REST-based synchronization architecture** between the web platform and Android devices.
- **Led a development team** of up to 7 engineers.
- **Applied Scrum practices** (sprint planning, backlog refinement) for part of the GCM development lifecycle.
- **Leveraged GitHub Copilot** as an AI coding assistant to support ongoing maintenance and debugging of the GCM platform.
- **Participated in continuous evolution** of the solution from 2016 to the present.

Business impact

- **Reduced customer onboarding time** into the billing cycle from months to days, in many cases to the same day.
- **Replaced manual field data collection** with mobile digital inspections.
- **Improved data quality** through automated business-rule validation before updating the commercial system.
- **Currently in production, supporting:** 675,000+ properties · 813,000+ service points · 500+ registered users · up to 2,400 field inspections per day · two electric distribution companies.

Technologies: *Oracle PL/SQL · Spring · Android · REST APIs*

Inventory Management Platform Modernization — Banco Popular

- **Led the requirements analysis and technical design** for the migration from Classic ASP to ASP.NET MVC.
- **Designed a fully normalized relational database model** to replace the legacy schema.
- **Proposed and defended the database redesign** despite project timeline concerns, enabling the successful adoption of Entity Framework.
- **Led the development team** throughout the migration project.
- **Participated in the implementation** of key application modules using ASP.NET MVC and .NET Web API.

Technologies: *ASP.NET MVC · .NET Web API · Entity Framework · SQL Server · Knockout.js · LINQ*

Energy Loss Control System — AES SONEL (Cameroon)

- **Developed enhancements and corrective maintenance** for a PHP-based enterprise application built on a proprietary framework.
- **Participated in a one-month on-site engagement** in Cameroon to support the deployment of the solution at the customer's facilities.
- **Coordinated execution of system processes** and validated operational workflows during the implementation phase.
- **Identified and analyzed environment-related issues**, including access permissions, configuration dependencies and required initial data setup.
- **Worked directly with customer teams** to define and verify prerequisites necessary for the successful start of operations.

English
Professional Working Proficiency

EDUCATION

Master's in Systems Engineering — Management Systems
Universidad Dominicana O&M · 2010–2012 (coursework completed)

Systems Engineering Degree
Universidad Dominicana O&M · 2005–2009

IT Technical High School Diploma
ITESA (Instituto Técnico Salesiano) · 1999–2003

- **Collaborated in English** with technical and business stakeholders throughout the implementation process.

Technologies: *PHP · Oracle · Proprietary Framework*

Customer Data Capture System — EDESUR

- **Led a team of three developers** under the guidance of the project manager.
- **Performed requirements analysis** and designed functional enhancements across the platform.
- **Designed new features** to improve coordination between the desktop application and the existing Windows Mobile solution.
- **Participated in the implementation** of key functionalities using the Microsoft .NET platform.
- **Collaborated closely with business stakeholders** to translate operational requirements into technical solutions.

This project laid the foundation for what would later evolve into the GCM system.

Technologies: *.NET · Windows Mobile · SQL Server*

Web Developer | Caribe SID (Yellow Pages)

July 2008 – May 2010

Online directory platforms

- **Maintained and enhanced** the Dominican Republic Yellow Pages portal (PaginasAmarillas.com.do), developed in ASP.NET and C#.
- **Designed and developed a lightweight mobile version** of the platform to improve accessibility on early mobile devices.
- **Assumed maintenance responsibilities** for the Puerto Rico Yellow Pages platform (SuperPagesPR.com) after participating in a knowledge-transfer engagement with the local development team in Puerto Rico.
- **Maintained additional corporate web portals**, including AMCHAM Online and Salud Online.

Internal business applications

- **Designed and developed from scratch** the company's Intranet platform using ASP.NET and C#.
- **Designed and implemented an overtime management module** integrated with the company's internal framework and centralized data model.
- **Provided maintenance and support** for additional business applications, including sales management systems.

Technologies: *ASP.NET · C# · SQL Server*

Client-Server Developer | FL Betances & Asociados

February 2007 – July 2008

- **CajaNET (APAP):** participated in the migration of APAP's cashier system from COBOL to .NET, preserving the existing user interface to minimize operational disruption and the need for user retraining. Developed modules using C#, .NET and the ConsoleForm framework, collaborating with COBOL specialists to translate business logic to the new platform.
- **Credit Card Flow Management Module:** gathered requirements with business users, designed the functional solution and application workflows, and implemented the complete system in VB.NET.
- **NCF Management Module (Tax Receipts):** developed enhancements and stored procedures in SQL Server.

Technologies: *C#.NET · VB.NET · ASP.NET · ConsoleForm · SQL Server 2000*

Developer | TSI Dominicana

October 2006 – February 2007

- **First professional software development role.** Worked in the development of a prepaid phone card activation and administration system for Farmax, integrated with external telecommunications services.

Technologies: *ASP.NET · VB.NET · Web Services · SQL Server 2000*

Technical Support (Internship) | Lógica S.A.

May 2002 – August 2002

TECHNICAL PROJECTS

FacturasApp — AI-Assisted Full-Stack Development | Course project

2026

- **Directed the development** of a full-stack invoicing application (Angular 17, Spring Boot 3.4, PostgreSQL) using Claude Code, defining architecture rules and design constraints in project instructions (CLAUDE.md).
- **Designed custom Claude Code subagents** for QA (Quality Assurance), security hardening and Angular code review, and orchestrated them to produce a 95-test backend suite (unit, web-layer, repository and integration tests).
- **Guided the security hardening** of the API: JWT (JSON Web Token) authentication with HttpOnly cookies, CSRF (Cross-Site Request Forgery) protection, per-IP rate limiting and security headers.
- **Extended Claude Code** with MCP (Model Context Protocol) integrations (Supabase, Playwright) and a custom MCP server in TypeScript, plus custom skills and hooks.

Technologies: *Claude Code · Angular 17 · Angular Material · Spring Boot 3.4 · Spring Security · PostgreSQL (Supabase) · JUnit 5 · Mockito*

Real-Time Chat Application | Personal project

2026

Hand-built full-stack chat to consolidate the testing and frontend practices explored with AI-assisted tooling.

- **Built a Spring Boot 4 backend** with WebSocket/STOMP messaging, user presence, typing indicators and JPA (Java Persistence API) persistence.
- **Built a React 19 + TypeScript frontend**, separating connection, messaging and typing logic into custom hooks.
- **Wrote layered backend tests** with JUnit 5, Mockito and AssertJ: unit tests for services and mappers, web-layer tests with MockMvc (including CORS rules), and repository tests with @DataJpaTest on an in-memory database.
- **Wrote frontend tests** with Vitest and React Testing Library covering components, custom hooks, module mocking and time-dependent behavior with fake timers.

Technologies: *Java 17 · Spring Boot · WebSocket/STOMP · JPA · React · TypeScript · Vite · JUnit 5 · Mockito · Vitest*