

Luis Mariano Umaña Araya

Software Engineering Student | Backend Developer

Java • Spring Boot • ASP.NET MVC • SQL Server • Oracle • Node.js • REST APIs
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[LinkedIn](#) - [GitHub](#) - [Portfolio](#)

PROFESSIONAL SUMMARY

Software Engineering student with hands-on experience developing backend systems and full-stack web applications using Java, Spring Boot, ASP.NET MVC, Node.js, Express.js, SQL Server, Oracle, MongoDB and MySQL. Skilled in designing RESTful APIs, database-driven applications and business management systems through personal and academic projects.

Passionate about backend development, software architecture and building scalable software that solves real-world problems. Strong foundation in object-oriented programming, database design, API development and modern software engineering best practices.

TECHNOLOGIES

Frontend: React, JavaScript, HTML5, CSS3, Bootstrap, Tailwind CSS, Thymeleaf.

Backend: Java, Spring Boot, C#, ASP.NET MVC, Entity Framework Core, Node.js, Express.js, RESTful APIs, JWT Authentication.

Databases: Oracle Database, SQL Server, MongoDB, MySQL.

Tools: Git, GitHub, Visual Studio, VS Code, NetBeans, Maven, Postman, MongoDB Compass.

Concepts: Object-Oriented Programming (OOP), MVC Architecture, Database Design, REST API Design.

RELEVANT PROJECTS

- **CCSS Case Management System – Personal Project**
- Developed a full-stack case management system for administrative inspections and workflow management.
- Designed and implemented RESTful APIs using Node.js, Express.js and MongoDB.
- Implemented business rules, authentication and role-based workflows for case assignment and tracking.
- Developed modules for inspectors, notifications, reporting and case resolution management.
- Designed MongoDB collections and business workflows to support administrative processes.
- Demo: <https://gestordecasosccss.netlify.app>

Digital Cycling Coach Platform – Personal Project

- Developed a backend platform that generates personalized cycling training plans based on athlete goals, availability and performance data.
- Designed and implemented RESTful APIs using Node.js, Express.js and MongoDB.
- Built a rule-based training engine to automatically generate and adapt weekly training plans.
- Implemented athlete profile, goal management and training scheduling modules.
- Designed a modular backend architecture focused on scalability, maintainability and clean code principles.

Livestock Auction Database System | Academic Project

- Designed and implemented a relational database for a livestock auction management system using Oracle Database.
- Applied database normalization (up to Third Normal Form) to improve data integrity and reduce redundancy.
- Created tables, primary keys, foreign keys and integrity constraints to ensure data consistency.
- Developed complex SQL queries for data validation, reporting and business operations.
- Implemented database security concepts including users, roles and profiles following Oracle best practices.

Order Management System | Academic Project

- Developed a web-based order management system using ASP.NET MVC, C# and Entity Framework Core.
- Designed and implemented CRUD functionality following the MVC architectural pattern.
- Integrated SQL Server for data storage, entity relationships and database management.
- Developed responsive Razor Views and backend logic for managing customers, products and orders.
- Applied object-oriented programming principles and clean code practices to build a maintainable application.
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EDUCATION

- B.S. in Software Engineering | Universidad Fidélitas, Costa Rica | Expected Graduation: July 2027

ACHIEVEMENTS

- **ICPC Programming Competition – Participant**
- Participated in the International Collegiate Programming Contest (ICPC), applying algorithms, logical thinking and problem-solving skills in a team-based competitive environment.

CERTIFICATIONS

- Full Stack Web Development Program (In Progress) – Lyfter Academy

LANGUAGES

- Spanish: Native.
- English: Intermediate (B1)