

FACUNDO ZIN

AI-Native Software Engineer | AI Integration & Backend Development

facundozin10@gmail.com · [Portfolio](#) · linkedin.com/in/facundozin/

Information

About Me

Software Engineer with experience in application development and the design of scalable systems. I have participated in the development of ERP systems, internal tools, and SaaS products, covering all stages of development: functional analysis, design, implementation, deployment, and maintenance.

My main interest is AI-Native software engineering: designing AI-assisted systems, integrating LLMs into applications, building agents, and adopting modern methodologies such as Specification-Driven Development (SDD). I seek to combine my interest in systems design with the strategic use of AI to build higher-quality software.

Experience

Software Engineer | Syntrax Software

Present

- I lead the complete life cycle of projects, from requirements gathering and functional analysis to architecture design, development, and production deployment.
- I design domain models and architectures, applying Domain-Driven Design (DDD) principles, modular design, and high-level design patterns to make systems scalable and maintainable.
- I use development tools such as OpenCode and SDD methodology to accelerate the design, implementation, and validation of software, integrating them into the workflow without compromising code quality or architectural decisions.
- I implement continuous integration and deployment processes using Docker, GitHub Actions, and Linux servers (VPS), automating the delivery of new versions and the maintenance of production environments.

AI Integrator (3-month internship) - SSI Technologies

- Design and development of artificial intelligence agents for the automation of production flows for various clients using n8n.
- Use of tools such as memory buffers and vector databases (Pinecone) to provide robust context windows to LLMs.
- Advanced prompt engineering to prevent hallucinations, prompt injection, and all kinds of problems related to LLM use.
- Integration of workflows with cloud functions, internal company firestores, webhooks, and client systems.
- Participation in meetings with clients to define functional requirements for automations.

Systems Intern - UTN

March 2025 - Enero 2026

- Development of a web system for the comprehensive management of institutional agreements.
- I gathered requirements directly from stakeholders and translated them into system features.
- I implemented document management, expiration alerts, and data update workflows to improve internal processes.

Projects

ASOCIARG

Platform for the comprehensive management of civil associations, featuring modules for managing members, trips, collections, rentals, and reservations, as well as an online payment portal and integration with MercadoPago, WhatsApp, and ARCA. The project utilizes a monolithic yet modular architecture, ready for deployment via Docker in a VPS environment. Domain-Driven Design principles and high-level design patterns for multi-tenant applications were applied in this project.

[Source code link](#) | [web site](#)

Rappi Delivery Application (demo)

I Design and develop a modular monolithic backend for the Systems Methodology 2 course. Authentication, role-based access, restaurant management, order placement, the shopping cart, and support workflows were implemented. The project was documented using UML diagrams.

[Source code link](#)

Education

Tecnicatura en Programación (UTN)

2024 - 2025

All coursework completed. Currently working on the final graduation project.

Systems Engineering (UTN)

Present

currently in the first year of the degree

Skills

Languages and Frameworks

C#, .NET, TypeScript, NestJS, React, Vue, n8n

Databases

SQL Server, PostgreSQL, SQLite, MongoDB, Firebase, Pinecon.

AI Engineering

AI-assisted Software Development (OpenCode, SDD, Skills), Agent and automation flow design, LLM integration in applications, Prompt Engineering, Retrieval-Augmented Generation (RAG) and Vector Databases (Pinecone), n8n AI Workflows.

Architectures & Patterns

Clean Architecture, Vertical Slice Architecture, MVC, DDD, Solid, CQRS.

Tools & DevOps

Docker, GitHub Actions (CI/CD), Swagger, Postman, Cloudflare, Linux (Ubuntu Server), Nginx, VPS deployments.

Articles

AI-Native Development: Building an AI Development Ecosystem with Gentle AI

LinkedIn · 2026

I explore how to evolve from the isolated use of code assistants toward an AI-native development workflow based on Specification-Driven Development (SDD), specialized sub-agents, persistent memory, and tools such as CodeGraph, Skill Registry, and Engram to build software more consistently and scalably.

Link: [AI development ecosystem using Gentle AI](#)

Designing Multi-Tenant Architectures: Data Isolation Strategies in AsociARG

LinkedIn · 2026

I explain the architectural decisions behind ASOCIARG to ensure secure data isolation between institutions within a multi-tenant architecture. The article addresses database modeling, information organization, and the strategies employed to maintain scalability, maintainability, and security without increasing development complexity.

Link: [Data Isolation Strategies in MultiClient Apps](#)