Diego Alvarado

Software Engineer

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PROFILE

Software engineer with experience leading and building AI-first products end-to-end: from frontend, architecture, and backend to LLM integration, automation, and production deployment. Focused on real-world impact, scalability, and technical decisions grounded in business needs.

EXPERIENCE

Lead Software Developer   Alt 94   **01/2025 - Presente**

Lead the design and development of AI-first products in production, from architecture definition through deployment and operations, aligning technical decisions with business objectives. Some of my responsibilities include:
- Designing and implement scalable backend architectures for AI-based products, prioritizing maintainability, observability, and performance.
- Integrating LLMs and AI pipelines (LangChain, RAG, automations) into real-world use cases, with a strong focus on reliability and cost control.
- Defining the full technology stack for production projects: backend services, databases, orchestration, and cloud infrastructure deployment.
- Making key technical decisions and establish best practices for development, CI/CD, and deployment.
- Coordinate technical development and act as a reference for architectural decision-making.

Freelance Developer   **01/2024 - 12/2024**

Designed and developed bespoke software solutions for more than 10 clients, covering the full product lifecycle from problem definition to production deployment.
- Built backend and fullstack systems with a strong focus on scalability, performance, and maintainability.
- Implemented automations and integrations with external services (APIs, databases, messaging systems).
- Led end-to-end projects: requirements gathering, architecture design, implementation, and deployment.
- Delivered production-ready solutions aligned with real business needs, prioritizing impact over unnecessary complexity.

Fullstack Developer   Applied AI in Healthcare Project– Universidad Austral   **03/2023 - 12/2023**

Contributed to the development of an anomaly detection system for chest X-rays, used as decision support in clinical workflows.
- Designed, trained, and fine-tuned a convolutional neural network (CNN) for medical image analysis.
- Implemented a production system that processes approximately 200 X-rays per day (~6,000 per month).
- Achieved an AUROC of 70% with the model in a real clinical environment.
- Collaborated on integrating the model into an operational workflow used by healthcare professionals.

SKILLS

Programming Languages	TypeScript · Python · Rust · Go · C# · Java · Shell Script
Technologies	LLMs · LangChain · RAG · Backend APIs · PostgreSQL · Docker · AWS · CI/CD
Languages	Spanish (native) · English (profficient) · French (intermediate)

EDUCATION

Universidad de Belgrano	Bachelor's Degree in Computer Engineering