Luis Fernando Yupanqui

Senior Software Engineer | AI Products | 5+ Years

Contact

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Summary

Software engineer with 5+ years building production systems. Specialize in AI products spanning cloud to embedded. Previously built real-time CV systems processing 4B+ images at Deepview. Looking for AI Engineer roles.

What I Bring

- **Ship fast:** 0 → production in weeks, not months
- **Full-stack AI:** From embedded C++ to cloud APIs to web frontends
- **Production mindset:** Built systems handling real-time ML inference at scale

Professional Experience

Backend Developer → Freelance Consultant | Deepview | Chile (Remote) *April 2023 — November 2025*

Deepview: AI startup backed by AWS, Corfo, Start-Up Chile. Platform processes 4B+ images for retail clients.

Built real-time computer vision system for retail analytics (theft detection, stock monitoring).

- Transitioned from employee to freelance consultant based on performance
- Architected microservices backend handling real-time image processing and ML inference
- Co-led team of 4 engineers through full development lifecycle
- Re-architected system with Terraform + Kubernetes achieving 10x scalability improvement
- Integrated ML models for product detection processing 100K+ images daily

Tech: Python, FastAPI, Computer Vision, ML Inference, Terraform, Kubernetes, AWS

Full Stack Developer | Roma | Chile *July 2021 — March 2023*

Roma: EdTech company serving schools across Chile with evaluation platform + custom hardware devices.

Built education management platform used by schools nationwide.

- Implemented Clean Architecture with SOLID principles, reducing development time by 45%
- Built secure authentication and reporting systems
- Increased platform engagement 29% through UX improvements
- Developed third-party integrations expanding platform capabilities

Tech: Vue.js, Java Spring Boot, PostgreSQL, Linux

Full Stack Developer | FITCO | Peru *February 2020 — March 2021*

Built management software for fitness businesses.

- Created reusable microservices template, accelerating future development by 50%
- Implemented E2E testing with Cypress, reducing debug time by 15%

Tech: Node.js, NestJS, Angular, MySQL, AWS

Projects

ESP32 AI Voice Assistant [GitHub](#) | [Demo Video](#)

AI voice assistant running on $10 ESP32 hardware. Wake-word detection, real-time voice commands, and ChatGPT integration. Demonstrates full-stack AI: from embedded C++ to cloud APIs.

Tech: C++, ESP32-S3, OpenAI API, Embedded Systems

Canvas Agent — AI Creative Studio [Live Demo](#) | [GitHub](#)

Full-stack AI application combining LLM agent with image/video generation on an infinite canvas.

Tech: JavaScript, Gemini API, Veo 3, IndexedDB, Google Cloud Run, Docker

Infinite Canvas VSCode — [GitHub](#) VSCode extension with 36+ stars and 500+ installs. Visual thinking tool for developers.

Tech: TypeScript, VSCode API

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C++

Backend: FastAPI, NestJS, Express, Spring Boot, REST APIs, Microservices

Frontend: React, Vue.js, Angular

AI/ML: LLMs, Gemini API, OpenAI API, Computer Vision, ML Inference, Prompt Engineering

Infrastructure: AWS, Docker, Kubernetes, Terraform, CI/CD, Google Cloud Run

Databases: PostgreSQL, MySQL, MongoDB, Firebase

Education

Machine Learning Specialization — Stanford/Coursera (Andrew Ng) Deep Learning, Neural Networks, ML Strategy

Nand to Tetris — Build a Computer from First Principles Hardware to OS-level systems understanding

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Languages

- Spanish: Native
- English: Full Professional Proficiency