

JUAN SUTIL PALMA

\$ software engineer · applied AI/ML - santiago, chile

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summary

Software engineer and AI Engineer at Mintii Labs, building agents, integrations and AI workflows for business operations. Experience across an early-stage B2B SaaS startup and a healthtech scaleup, with hands-on work in backend, frontend and automated testing. I also build ML prototypes in document retrieval, audio and computer vision, bringing a scientific background and end-to-end ownership to small product teams.

experience

AI engineer @ Mintii Labs Oct 2026 - present

- > Design and build AI agents and workflows for client operations, connecting language models to business systems through APIs and MCP.
- > Develop RAG, information-extraction and classification workflows with structured outputs; build n8n automations and deploy solutions on AWS and GCP.
- > Work directly with founders and clients to translate processes into solutions, selecting and evaluating models for quality, cost and latency.

Python · LLMs / tool use · MCP · RAG · n8n · AWS / GCP

software engineer @ HealthAtom Sep 2025 - Jun 2026

- > Built backend and frontend functionality across the payments portal and online-booking app for a healthtech SaaS serving clinics across Latin America.
- > Worked on billing and messaging APIs, new features, redesigns and refactors, collaborating through code review with engineering, Product, QA and Support.

PHP / CodeIgniter · React · JavaScript · MobX · SQL

software engineer @ Reimpace Jan 2023 - Feb 2025

- > Second engineer at a B2B environmental-compliance SaaS. Delivered platform migrations, dashboards, APIs and CRM/ERP integrations across frontend and backend.
- > Raised automated test coverage from 0% to 67%+ and worked on AWS infrastructure; supported the platform as its customer base grew from 4 to 20+ companies.

PHP · Laravel · MySQL · AWS · PHPUnit / Pest · CI/CD

also - Backend contract at RoiLabs (2024): serverless workflows with AWS Lambda, Step Functions and DynamoDB, using Python/Go. Freelance software and data tooling.

selected projects - applied AI / ML

- > **PIN · document intelligence** - Built the engine and React app end to end: local-first OCR, hybrid lexical/semantic retrieval and answers linked to the exact source page. Built for scanned legal files; being adapted for other document-heavy workflows. Public landing; application not public.
Python · FastAPI · React · FAISS · SQLite FTS5 · PaddleOCR / Qwen-VL
- > **Talia · audio ML / conservation** - Prototyped audio detection and sound localization for illegal-logging monitoring; built a multi-tenant API for devices, zones and alert contacts. Hackathon project seeking funding; integrated detection-to-alert pipeline still pending.
Python · FastAPI · PostgreSQL · audio ML
- > **vi2bo · video to document** - Built a transcription-to-PDF pipeline using faster-whisper, structured Markdown and LaTeX, with equation compilation checks and scene selection. Built; not deployed.
- > **Computer vision prototypes** - Vehicle tracking and speed estimation with YOLO/Detectron2; road-damage detection using models fine-tuned on Mapillary street imagery.
Project details: jjsutil.gauge.cl · Most repositories are private.

education

- > **BSc in Astronomy (Astrophysics)** - Pontificia Universidad Católica de Chile, 2017-2021 · highest distinction
- > **BEd in Physics & Natural Sciences** - Pontificia Universidad Católica de Chile, 2019-2022 · highest distinction

skills

code → Python · PHP · SQL · JavaScript / TypeScript · Go (some experience)

web / backend → FastAPI · Laravel · React · REST APIs · MySQL · PostgreSQL

AI / ML → PyTorch · scikit-learn · YOLO / Detectron2 · OCR · RAG / retrieval · pandas · NumPy

delivery → AWS · Docker · GitHub Actions · pytest · PHPUnit / Pest · Playwright

languages → Spanish (native) · English (B2+) · Portuguese (basic)

// one page by design · updated Oct 2026