Mauricio Salinas

Backend Developer · Python (Django and FastAPI) · APIs, databases and automated testing

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SUMMARY

I build the part of an application you don't see: the server, the APIs that connect it to the web or mobile app, and the databases. I work in Python (**Django**, **FastAPI**) and write the tests before the code (TDD): my projects add up to more than **1300 automated tests** that check every change before it goes live. I code every day with AI assistants (**Claude Code**, OpenCode).

PROJECTS

Independent development · Apr 2025 – present

Monolith · Server for a to-do web app (FastAPI) — **Demo** (first load ~50 s) · **API** · **Repo**

`Live · 263 automated tests`

Sign-up, login and tasks, with hexagonal architecture (ports and adapters) and its own React web app.

- **Secure login**: with Google, with one-time codes (OTP), hashed passwords and a limit on attempts.
- **Automated tests against a real database** (PostgreSQL) that run on every change (GitHub Actions).

Event-Driven Orders · Order system for e-commerce, with an AI assistant — **Repo**

`4 connected services · 367 automated tests · 24 documented decisions`

- Orders, inventory, notifications and the assistant are **separate services that notify each other** (RabbitMQ).
- An **AI assistant** (NestJS and Gemini) answers questions about the orders and **cites the orders and events** it relies on; if it mentions an order that doesn't exist, the answer is discarded.
- Designed so that **an order is never processed twice** and stock that isn't there is never sold.

MedBook · Medical appointment booking platform — **Demo** (first load ~50 s) · **API** · **Repo**

`Live demo · 715 automated tests`

- Doctors publish their schedules and **patients book online**, in Spanish or English (Django); the same logic is offered as a **documented API** (Django REST Framework, Swagger).
- Role-based permissions (doctor, patient, admin) and **a safeguard so two patients can't take the same slot**, tested with two simultaneous bookings.

EXPERIENCE

IT Support Analyst · Dominó (Cadaques) — Santiago, Chile · Apr 2023 – Jul 2024

- Built an **automated data pipeline (ETL) in Python** that turned **millions of sales receipts** from the registers of every branch (2022–2023) into data for accounting and finance, and for marketing's KPIs and product analysis.
- Together with the BI team, built part of a **web reporting app** (sales, KPIs and stock) and maintained it; management, marketing and finance used it for at least 6 months (Python, SQL Server, React).
- **Automated sending receipts to the e-invoicing provider** without stopping operations, and later helped install the provider's own system.
- Resolved system incidents down to their root cause and maintained the SQL databases.

TECHNICAL SKILLS

Languages and data	Python, SQL, PostgreSQL, SQL Server, Redis, pandas, TypeScript
Servers and APIs	Django, Django REST Framework, FastAPI, NestJS, SQLAlchemy, REST APIs, JWT, OAuth2, RabbitMQ
Software design	OOP, hexagonal architecture, Clean Architecture, DDD, event-driven microservices, ADRs
Quality and delivery	Automated testing (pytest), TDD, Git, GitHub Actions, Docker, Docker Compose, Render
Artificial intelligence	LLM agents (Gemini), Claude Code, OpenCode, spec-driven development

LANGUAGES

Spanish: Native
English: C2 in reading and listening (EF SET 71/100) · B2+ speaking

EDUCATION

Programmer Analyst (Analista Programador) · Graduated
Instituto Profesional Santo Tomás · Santiago, Chile · Mar 2021 – Jul 2025