

Franco Rupnik

SOFTWARE ENGINEER · UNIVERSITY PROFESSOR · AWS CLOUD PROFICIENT

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Summary

Software engineer with 2+ years of experience and a strong backend focus, working across Java, Python, Go, Docker, Kubernetes, and AWS. I build scalable microservices and AI-driven systems for production — including a production Model Context Protocol (MCP) server and multi-agent LLM workflows. Passionate about cloud-native engineering, distributed architectures, and high-performance backend design.

Experience

Mendel

BACKEND ENGINEER – AI PLATFORM

Buenos Aires, Argentina

Jan. 2026 – Present

- Build the AI platform behind Mendel's intelligent expense management — a **Spring Boot** microservices ecosystem running on **AWS EKS**.
- Own the WhatsApp conversational experience end to end: a **Java** orchestration layer (BFF) and a **Python** AI agent spanning natural-language understanding and tool-based agent workflows.
- Built and shipped to production our **MCP (Model Context Protocol) server**, exposing expense-audit and travel-approval tools to AI assistants like Claude.
- Implemented its **OAuth 2.0** authorization layer (resource server with Dynamic Client Registration and refresh tokens), delegated SSO, and **SSE** streaming transport.

Instituto Tecnológico de Buenos Aires (ITBA)

UNIVERSITY PROFESSOR

Buenos Aires, Argentina

Mar. 2025 – Present

- Taught and mentored a cohort of **25 advanced students** across two semesters, guiding them through the design and implementation of microservice-based systems.
- Delivered lectures and hands-on workshops on Docker, Kubernetes, CI/CD, container orchestration, and cloud-native patterns, increasing lab completion rates by **20%**.
- Supported project teams in real-world distributed systems exercises, helping students improve the scalability and resilience of their final solutions by **15%**.
- Improved overall student satisfaction by **25%** in course feedback surveys through structured support, clear guidance, and targeted troubleshooting sessions.

Accenture Argentina

AI LLM TECHNOLOGY ARCHITECTURE ASSOCIATE

Buenos Aires, Argentina

Aug. 2025 – Jan 2026

- Develop and evolve a multi-agent AI platform built on a customized fork of n8n, enabling intelligent routing across **+8 specialized agents** and improving end-user query resolution accuracy by **25%**.
- Designed agent workflows and integrated RAG pipelines, contributing to a **30% reduction** in irrelevant responses through continuous user-feedback, sentiment analysis, and performance-based retraining.
- Optimized LLM performance and agent orchestration, reducing model invocation overhead by **15%** in high-scale production environments.

Accenture Argentina

DATA & AI DEVELOPER INTERN

Buenos Aires, Argentina

Aug. 2024 – Aug. 2025

- Contributed to end-to-end AI initiatives, improving prototype validation throughput by **20%** by refining evaluation workflows and aligning them with business KPIs.
- Developed optimization modules for LLM-powered enterprise chatbots, achieving a **15% reduction in cost per request** and an **20% improvement in latency**.
- Identified and resolved performance bottlenecks in low-efficiency backend components, improving system throughput by **25%**.

Education

Instituto Tecnológico de Buenos Aires (ITBA)

MASTER OF ENGINEERING, SOFTWARE ARCHITECTURE & ENGINEERING

Buenos Aires, Argentina

Mar. 2023 – Jul. 2025

- Graduated with an **Honors Diploma** for academic **excellence**.

Instituto Tecnológico de Buenos Aires (ITBA)

BACHELOR ENGINEER'S DEGREE, COMPUTER ENGINEERING

Buenos Aires, Argentina

March. 2020 – Dec. 2023

Skills

DevOps	AWS Cloud, Docker, Kubernetes, Terraform, Gitlab CI/CD
Back-end	SpringBoot, Gin, FastAPI, Flask, REST API, OAuth 2.0
AI / LLM	MCP, LLM orchestration, Agent workflows, RAG
Front-end	Angular, HTML5, CSS, SASS
Programming	JAVA, C, Golang, SQL, Python, Typescript, Javascript
Languages	Spanish(Native), English(C2-Proficiency), French(B1)