

Maximiliano Nielsen

Backend Lead & DevOps Engineer — distributed systems, infrastructure, fintech

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Rosario, Argentina (UTC-3) · Spanish (native), English (professional)



SUMMARY

Software engineer specialized in distributed systems and fintech infrastructure. Tech lead of the business product line at LB Finanzas, where I design, build and operate the services that move money on a ~47-microservice Kubernetes platform. Co-founder & CTO of Hansen Labs.

EXPERIENCE

LB Finanzas — lbfinanzas.com

Nov 2021 — present

Tech Lead, Business Products — joined as Jr. DevOps Engineer

Argentine fintech: trading, payments and fund management across crypto and traditional rails.

- Technical lead of the business product line — the APIs that let companies and introducing brokers operate on the platform: architecture, API design and delivery coordination.
- Design, build and operate banking connectors: US rails (ACH and wire transfers) and Argentine rails (CBU/CVU transfers over COELSA), plus Fireblocks for crypto custody.
- Trading systems: order execution and swaps against external liquidity providers, and the routing of securities orders to US and Argentine markets.
- Backend development on the payments services: deposit and withdrawal flows over fiat and crypto rails.
- Operate three Kubernetes clusters and part of the platform's networking: ingress (Emissary/Envoy) and Netbird mesh VPN.
- Maintain the build and deploy platform for the ~47 services: centralized base images, CI templates and GitLab CI + ArgoCD pipelines.

Hansen Labs — hansenlabs.dev

2026 — present

Co-founder & CTO

We build Coliseo: memberships, payments and access control for Club Atlético Newell's Old Boys.

- We took the product **from zero to production in five months**: memberships, billing, checkout and stadium access, live for one of Argentina's biggest clubs.
- Responsible for payments — installment billing and Mobbex checkout — and for the platform's deployment on Google Cloud, with Supabase as the database.
- Built as a team: TypeScript monorepo, back-office, ticketing and NFC access verification at the stadium gates.

Web Developer — Sistemas Integrados

2019

Network Technician — ACD Networks

2018 — 2020

EDUCATION

BSc (Licenciatura) in Computer Science — in progress, thesis completed

2020 — present

Universidad Nacional de Rosario — FCEIA

Technical degree in Programming (low-level focus)

2013 — 2019

Research note: co-author of "Visual-Inertial-GNSS Fusion with Distance Constraints" — journal paper in preparation with CIFASIS (CONICET-UNR) and Universidad de Zaragoza, grown out of my undergraduate thesis on sensor fusion for agricultural robots.

PROJECTS

- **confide** (Go) — end-to-end encrypted team secrets over Google Drive; age/X25519 + ed25519, self-updating CLI.
- **dialin** (TypeScript) — PWA for dialing in espresso: shot logging, bean tracking, adjustment suggestions.
- **okane** (Haskell) — small DSL for representing money movements; Parsec parser and REPL.

SKILLS

- **Languages:** Go, TypeScript/Node, Ruby (Rails), C/C++, Python, Haskell, SQL
- **Platform:** Kubernetes, Google Cloud, Docker, GitLab CI, ArgoCD, RabbitMQ, PostgreSQL, Redis
- **Networking:** Emissary Ingress, Envoy, Nginx, Netbird, gRPC
- **Observability:** OpenTelemetry, Prometheus, Grafana, Jaeger, Elastic
- **Interests:** distributed systems and concurrency, event-driven and asynchronous patterns, infrastructure, fintech, robotics