Nathan Ospino Hernández

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Data Engineer and Full Stack Developer with 2+ years of experience building data pipelines for banking (BBVA Argentina) and production SaaS products (CRM, ERP, POS). Tech Lead in a regulated financial environment, focused on data quality, root cause analysis and engineering best practices. I integrate AI into the development lifecycle in a structured way (agents, MCP, custom skills) to deliver faster without sacrificing quality.

PROFESSIONAL EXPERIENCE

Soulft **Mexico (Remote)**
Full Stack Developer *February 2025 – Present*

- Build SaaS products (CRM, ERP, POS) with NestJS, React, TypeScript, TypeORM and PostgreSQL; caching with React Query and monorepo deployment with Docker and Dokploy.
- Redesigned role-based authorization with CASL, closing security gaps across layers (frontend, API and data).
- Implemented race-condition-safe order numbering and receipt printing on thermal printers.
- Built bulk CSV import with upsert and a MercadoLibre integration for a mobile-device inventory system (SmartConnect).
- Contribute to internal technical standards (CLI, seeders and factories architecture in NestJS) and code reviews.

Bluetab (Client: BBVA Argentina) **Argentina (Remote)**
Data Engineer (Technician - Tech Lead) *September 2024 – Present*

- Develop and maintain sustainability data pipelines in PySpark on AWS (SageMaker, EMR, S3 with partitioned Parquet, Glue, Athena) using the Datio platform SDK.
- Identified the root cause of ~3,000 contracts dropped by historical join logic in a corporate dashboard; the finding was validated by Global Data Hub (Spain) and led to a fix proposal.
- Led financial data reconciliations (credit card contracts), fixing duplicates, faulty joins and configuration errors in production partitions through backfills and deduplication (boto3, Hadoop FileSystem).
- Replicated Control-M job chains across 4 years of historical data (2023–2026) and optimized SQL queries in Athena on partitioned tables.
- As Tech Lead, give structured feedback to the team (SBI model) and coordinate with business and global teams.

Freelancer **Valledupar, Colombia (Remote)**
Full Stack Developer & DevOps *2023 – Present*

- **Lápiz 360:** school assessment platform aligned with national curriculum standards and ICFES test prep (React, NestJS, PostgreSQL), with question bank, roles and E2E testing; deployed on a VPS with Dokploy.
- **Infrastructure for 4 schools:** Laravel applications on a VPS with nginx, CI/CD with GitHub Actions, automated backups and n8n.
- **EzCompu:** equipment lifecycle module in Laravel/Livewire with PDF equipment history export.

AI-ASSISTED DEVELOPMENT

- **Multi-agent workflow:** Claude Code (planning) + Codex CLI (implementation), with project conventions versioned in CLAUDE.md / AGENTS.md.
- **Custom skills and MCP:** Claude Code skills (e.g., NestJS module generation following project rules) and tool integration via Model Context Protocol.
- **Automation:** self-hosted n8n with Docker and nginx to orchestrate workflows across services.

EDUCATION

Universidad Nacional Abierta y a Distancia (UNAD) **Valledupar, Colombia**
B.S. in Systems Engineering *In progress*

Servicio Nacional de Aprendizaje (SENA) **Espinal, Colombia (Remote)**
Technologist in Software Analysis and Development (Completed) *February 2025*

SKILLS

- **Data Engineering:** PySpark, Python, Pandas, SQL, ETL, Control-M, AWS (S3, Lambda, Glue, Athena, SageMaker)
- **Full Stack Development:** NestJS, React, TypeScript, TypeORM, Laravel/PHP, REST APIs, PostgreSQL/MySQL
- **DevOps & AI:** Docker, nginx, GitHub Actions (CI/CD), Linux/VPS, Git · Claude Code, MCP, n8n
- **Practices & Languages:** SCRUM, code review, E2E testing · Spanish (native), English (intermediate)