

JUAN SEBASTIÁN MARTÍNEZ NOREÑA

Systems and Computing Engineer · Full-Stack Development, DevOps and Infrastructure

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PROFESSIONAL SUMMARY

Systems and Computing Engineer with experience leading the full lifecycle of institutional applications in production: full-stack development, architecture, deployment and infrastructure administration. Technical owner of a portfolio of seven applications used by hundreds of public servants, running on Nutanix AHV virtualized infrastructure with AlmaLinux, while coordinating rotating teams of interns. DevOps-oriented profile: containerization with Docker, routing with Nginx, CI/CD, monitoring, authentication with Keycloak and technical documentation as code (docs-as-code, ADRs). Focused on high availability, standardization and technical sustainability in resource-constrained environments.

WORK EXPERIENCE

Software & Infrastructure Engineer (Tech Lead)

Government of Boyacá — IT Department | August 2025 – August 2026

Responsibilities

- Technically led the portfolio of institutional applications in production, defining architecture, development standards and technical priorities.
- Developed and maintained full-stack applications with Next.js, NestJS, Angular, Node.js, Prisma and PostgreSQL.
- Administered the virtualized infrastructure on Nutanix AHV (AlmaLinux and Windows Server), ensuring the availability of production environments.
- Managed production deployments with Docker and Docker Compose, including Nginx routing, TLS certificates and per-environment variables.
- Administered PostgreSQL databases: modeling, migrations, backups and connection-pool optimization.
- Handled production incidents, performed root-cause analysis and applied the corresponding corrective actions.
- Implemented and maintained CI/CD pipelines, service monitoring and server hardening.
- Wrote the portfolio's technical documentation (manuals, ADRs and operating procedures) following a docs-as-code approach.
- Coordinated, trained and supervised the rotating teams of interns assigned to the area.

Achievements

- Reduced virtualized infrastructure by 57% (from 7 to 3 virtual machines) by consolidating the applications into a unified Docker, Docker Compose and Nginx setup, backed by an ADR and a role-based migration plan.
- Implemented a monitoring and alerting stack for the entire infrastructure (Zabbix 7.4 and Uptime Kuma on Docker/PostgreSQL), replacing reactive failure detection with automatic notifications and centralized visibility of service health.
- Fully migrated an application's database from Supabase to internal PostgreSQL with PgBouncer, removing the dependency on an external provider and resolving credentials, RLS and ORM configuration.
- Standardized technical documentation across all 7 repositories (/docs structure, OKF conventions and Twelve-Factor discipline), reducing onboarding time and preserving technical context through the semi-annual rotation of interns.
- Automated continuous deployment with GitHub Actions and self-hosted runners, eliminating manual steps and reducing release-related errors.
- Unified institutional authentication with Keycloak and NextAuth, resolving integrations with the corporate proxy and configuration mismatches between environments.
- Secured the servers through hardening, fail2ban and centralized secrets management, eliminating plain-text credential handling.

Software Development Intern

Government of Boyacá — IT Department | March 2025 – July 2025

Responsibilities

- Developed, supported and maintained the applications managed by the IT Department.
- Supported data modeling and project structuring in the context of a public entity.
- Built solutions with JavaScript, Google Cloud and the Power Apps environment.

Achievements

- Hired as the area's permanent technical lead at the end of the internship, taking over leadership of the entire portfolio of institutional applications.

EDUCATION

Systems and Computing Engineering

Universidad Pedagógica y Tecnológica de Colombia (UPTC) — Graduated, 2026

TECHNICAL SKILLS

- **Languages:** Java, TypeScript, JavaScript, Python, SQL
- **Backend:** NestJS, Node.js, Next.js, Prisma
- **Frontend:** Angular, Next.js, React
- **Databases:** PostgreSQL, Oracle SQL, MySQL, SQLite, MongoDB
- **Authentication:** Keycloak, NextAuth, JWT
- **DevOps:** Docker, Docker Compose, Nginx, CI/CD (GitHub Actions), Git
- **Infrastructure:** Nutanix AHV, AlmaLinux, Windows Server
- **Cloud:** Microsoft Azure, Google Cloud (GCP)
- **Monitoring:** Zabbix 7.4, Uptime Kuma
- **Documentation:** docs-as-code, ADRs, OKF, Twelve-Factor

FEATURED PROJECTS

Distributed student information application

Web system for managing students, enrolled courses, teachers and seats per course in a university setting. Built with TypeScript, Angular and Azure, using PostgreSQL as the database.

Repository: github.com/THEJUANX94/AzureDistribuidos

Inventory system for a cosmetics company

Desktop application for inventory management and invoicing, built with Java and SQLite.

Repository: github.com/THEJUANX94/Ancla

ADDITIONAL TRAINING

- Java Programming — Boomlabs Computer Science (200 hours).
- Java Diploma Course — Politécnico de Colombia (120 hours).
- Google Cloud course — GCP Foundations Academy (40 hours, 4 courses).

SOFT SKILLS

- Technical leadership
- Solution architecture
- Results orientation
- Complex problem solving
- Teamwork
- Assertive communication
- Proactivity and autonomy
- Responsibility and attention to detail
- Continuous learning
- Working under resource constraints

LANGUAGES

Spanish: Native | English: Upper-intermediate (B2)