

**Jonathan Sansó – Ssr. Fullstack Developer (Node.js / React) - Higher Degree in Programming**

React | Next.js | TypeScript | Tailwind | Bootstrap | NestJS | Python | Prisma | MySQL | PostgreSQL | MongoDB | Docker | NGINX | Debian | Git | GitHub

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## Professional Experience

### 1. Argentine Federal Penitentiary Service (Jan 2024 - Present) [Private links]

#### a) Institutional Platform for Complex Events - Frontend & Backend

- Lead developer of a national-scale internal platform across multiple penitentiary units.
- Replaced manual Excel workflows building Python (Pandas) ETL pipelines to normalize raw Excel files headers, document fields, establishment codes, ISO-8601 dates and automated NestJS/Prisma import scripts to load structured data into a centralized MySQL database.
- Dynamic forms with complex validations, modals, file uploads, image croppers. Interactive maps (Leaflet/Google Maps) for events and geospatial zones.
- Automated PDF/Excel/Word reports with statistical charts and temporal–spatial filters.
- Alerts and coordination via WhatsApp integration.
- Secure architecture: TypeScript, Next.js, Tailwind, NestJS, Prisma, MySQL, Docker, NGINX on Debian.
- Security: Auth0 2FA, CSRF, session handling, input sanitization, rate limiting, static file hardening.
- Fully dockerized with automated backups on a self-managed Linux environment.

#### b) Public Web Verification Portal - Frontend & Backend

- Public extension of the Institutional Platform for Complex Events, providing secure document verification for national and international organizations.
- Verifies reports via CV + CRC validation (HMAC-SHA256) and issues 10-minute JWT view grants (HS256) with server-controlled, time-limited access.
- Anti-exfiltration controls: disables copy/paste, print, and captures; adds recipient watermark overlay.
- Renders TipTap JSON → HTML with justified text and institutional formatting.
- Signed push API with HMAC, idempotency keys, clock-skew validation, and SHA-256 file integrity checks.
- Stack: React (Vite), TypeScript, Tailwind, NestJS, Prisma, MariaDB, Docker/Compose, NGINX, Helmet/CORS.

#### c) Ticketing System - Frontend & Backend

- Internal IT ticketing platform in PHP + MySQL with Google SSO.
- Incident intake, assignment, status tracking, and audit trail.
- Streamlined maintenance workflows with reliable, searchable history.

### 2. VirtuaState - Frontend (May 2022 - Jul 2022)

- Responsive portfolio site for a VR/AR studio (HTML5/CSS/JS, mobile-first).
- SEO and performance optimizations to improve visibility and load speed.
- Live: [www.virtuastate.net](http://www.virtuastate.net)

## Education:

### 1. Higher Degree in Programming - Teclab (Aug 2022 - Aug 2024)

**Subjects:** Programming Logic, SQL Databases, Web Programming (JavaScript and PHP), User Experience (UX), Cloud Operations (Cloud Practitioner), Project Management, Mobile Programming (Java), Configuration Management, Web Integrations, Information Systems Design, Development Interfaces, Time and Work Organization, People Management, Efficient Decision-Making and Problem Solving.

### 2. Frontend - Backend - CoderHouse (Jan 2022 - Mar 2023)

Delivered all projects on time using HTML5, EJS, CSS, SASS, React, Node.js, MongoDB, Express, and GraphQL, as seen at <https://react-e-commerce-j-sanso.vercel.app>