

## 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>