

Jonathan Sansó – Ssr. Frontend and Backend - Higher Degree in Programming

React | Next | TypeScript | Tailwind | Bootstrap | NestJS | Prisma | MySQL | PostgreSQL | MongoDB | Docker | Nginx | Putty | 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 **Excel** workflows with a centralized **MySQL** database via automated **Prisma scripts**.
- 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 (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

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>