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

Buenos Aires, Argentina - Remote - Tel.: +5491169123268 - E-mail: jonasans2@live.com.ar - English: B2 - Links: https://portfolio-sanso-jonathan.netlify.app - https://github.com/jonathansansok - https://linkedin.com/in/jonathan-sanso-fullstack

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**