**Jonathan Sansó** **- Frontend - Backend - Higher Degree in Programming**

**React | Next | TypeScript | Tailwind | Bootstrap | NestJS | Prisma | MySQL | PostgreSQL | MongoDB | Nginx | Docker | Putty | Git | GitHub**

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**Professional Experience:**

**1- Argentine Federal Penitentiary Service (Jan 2024 – Present)**

**a- Institutional Platform for Complex Events — Frontend and Backend**

* **Lead** **developer** of a national-scale **internal** **platform** **deployed** across multiple penitentiary units.
* **Automated** operational **workflows** through dynamic forms with **complex** **validations**, **modals**, file uploads, and **image** **croppers**.
* **Migrated** outdated Excel-based processes to a **centralized** **MySQL** database using automated Prisma scripts.
* **Integrated** interactive **maps** using Leaflet and **Google** **Maps** to display events and **geospatial** zones.
* **Eliminated** **manual** data collection by enabling **real-time** information flow and automatic data persistence, significantly accelerating decision-making and ensuring long-term statistical tracking.
* Generated **automated** **PDF**, **Excel**, and **Word** reports with **statistical** **charts** and **temporal-spatial** filters.
* Implemented **WhatsApp-based** **messaging** for **immediate** **alert** delivery and operational coordination.
* Built a secure, high-performance **architecture** using **TypeScript**, **Next.js**, **Tailwind**, **NestJS**, **Prisma**, **MySQL**, **Docker**, and **NGINX** on **Debian**.
* Applied **robust** **security** practices: **Auth0** with **2FA**, **CSRF** **protection**, **session** **handling**, input **sanitization**, rate **limiting**, and **modular** **static** file management.
* Fully **dockerized** **deployment** with **automated** **backups**, running on a self-**managed** **Linux** environment.

**b- Ticketing System — Frontend and Backend**

* **Developed** and **deployed** an internal **IT** **ticketing** **platform** using **PHP** and **MySQL**.
* Allowed staff to report hardware/software issues and IT personnel to manage and resolve incidents effectively.
* **Reduced** **average** **resolution** time by **approximately** 4**0%** through centralized communication and status tracking.
* **Integrated** **Google** **SSO** for secure access and streamlined authentication.

**2- VirtuaState (May 2022 – Jul 2022)**

* **Designed** and **developed** a **responsive** **portfolio** site for a **VR/AR creative studio**.
* Built using **HTML5**, **CSS**, and **JavaScript** with mobile-first design principles.
* Enhanced the client’s **digital** **presence** and improved user **experience** across devices.
* Applied **SEO** and performance optimization **techniques** to **improve** visibility and page load speed.
* Site live at: [**www.virtuastate.net**](http://www.virtuastate.net)

**Education:**

1. **Higher Degree in Programming — Teclab (Aug 2022 – Aug 2024)**

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

1. **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**](https://react-e-commerce-j-sanso.vercel.app/)