

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 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- Migrated outdated Excel-based processes to a **centralized MySQL** database using automated Prisma scripts.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 implemented an internal IT ticketing platform using **PHP** and **MySQL**.
- The system allows staff to **report hardware and software incidents**, assign them to **responsible technicians**, and **track their resolution in real time**.
- It **streamlines and organizes maintenance workflows**, providing a **complete record** of each intervention and ensuring **greater reliability and traceability** of all repairs.
- Integrated secure authentication via **Google SSO** to simplify access and maintain **data integrity**.

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

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>