

Jonathan Sansó - Frontend - 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- **Migrated** outdated Excel-based processes to a **centralized MySQL** database using automated Prisma scripts.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>