

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- **Migrated** outdated Excel-based processes to a **centralized MySQL** database using automated Prisma scripts.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 40%** 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

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).

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>

