Jose Luis Garcia Betancourt

Computer Systems Engineer

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Profile

Computer Systems Engineer specialized in Cybersecurity with experience in Full Stack development. I have participated in the design and development of enterprise systems (ERP, financial quoting tools, networking platforms, etc.) using technologies such as React, Node.js, Laravel, and SQL Server. Skilled in implementing security measures, database optimization, and agile development methodologies (Scrum). Focused on building scalable solutions that improve efficiency, reduce errors, and deliver direct business value.

Education

B.S. in Computer Systems Engineering, *Instituto Tecnológico De Durango*   2019 – 2024
Specialization in Cybersecurity   Durango, México

Professional Experience

Desarrollador Full Stack, *Grupo Garza Limon*   05/2025 – Present
Integrated Traffic Fines System – Multipayment Center 05/2025 – Present   Durango, México
Durango, Mexico

- Developed a complete system for issuing, managing, and paying traffic fines.
- Implemented a guided 4-step workflow with real-time validation and digital signature capture from offenders.
- Automated fine calculation based on UMAs, generated official PDFs with QR codes, and stored files in AWS S3.
- Built payment modules, public lookup by QR/folio, and a dashboard with key metrics.
- Developed administrative CRUD modules and data export to Excel.

Tech Stack: Laravel 12, Inertia.js, MySQL, AWS S3, DomPDF, React 18, TypeScript, Vite, TailwindCSS, shadcn/ui.

ERP GGL – Corporate ERP System

- Developed and maintained a full ERP system for finance, purchasing, inventory, HR, and more.
- Implemented new modules in Laravel and PHP; optimized legacy AngularJS code.
- Managed database migrations and structure in MariaDB using DBeaver.
- Optimized critical SQL queries to improve performance.
- Worked under Agile Scrum methodology.

Tech Stack: Laravel, PHP, AngularJS (legacy), MariaDB, DBeaver, Git, Scrum.

NOC – Internet Failure Reporting Platform

- Designed and developed a system for reporting and tracking internet service failures.
- Built complete modular interfaces with React and Vite, improving usability and response times.
- Integrated with existing databases and collaborated with frontend and technical support teams.

Tech Stack: Laravel, PHP, AngularJS, React, Vite, MariaDB, DBeaver, Git, Scrum.

LEGACY – Enterprise Networking & Management Platform
- Developed an application focused on connecting business owners and professionals across multiple industries.
- Integrated modules for course purchases, industry events, specialized communication rooms, event information, and advertising, promoting networking, training, and business collaboration.
- Implemented backend in Laravel (PHP) with secure authentication using Laravel Sanctum and granular access control.
- Managed digital assets and files using AWS S3 SDK.
- Built a modern SPA using React with Inertia.js and TypeScript, optimizing user experience.
- Designed responsive and accessible interfaces using TailwindCSS and Radix UI components.
- Ensured quality through Pest, PHPUnit, ESLint, and Prettier.

Tech Stack: Laravel, Laravel Sanctum, AWS S3 SDK, React, Inertia.js, TypeScript, TailwindCSS, Radix UI, Vite.

COSMOCARRIER – Business Internet
- Designed and developed an automated quoting system for internet services, replacing manual Excel processes and reducing calculation errors.
- Implemented a dynamic calculator with real-time ROI, configurable discounts, and synchronized payment splitting.
- Built administrative CRUD modules for service catalogs, subscription plans, and per-kilometer costs, integrated with the main calculator.
- Developed a granular permissions system using Laravel Sanctum and Spatie Permissions to ensure security and access control.
- Enhanced user experience with instant calculations, interactive charts (Chart.js), and a responsive AdminLTE interface.

Tech Stack: PHP 8.3, Laravel 10, Sanctum, Spatie Permissions, Blade, JavaScript ES6, Chart.js, MySQL.

SICT Durango, *Freelancer*   08/2024 – 12/2024
SIGIL – Workplace Incident Management System   Durango, México
- Developed a web-based incident management system, optimizing report tracking and approval.
- Implemented an interactive dashboard using React and TailwindCSS.
- Improved component communication using Context API.
- Integrated Leaflet for geospatial visualization and Recharts for data analysis.
- Implemented role-based authentication and data encryption.
- Worked under Scrum for agile and efficient development.

Tech Stack: React, TailwindCSS, Context API, Leaflet, Recharts, Node.js, SQL Server, Scrum.

SECOPE Durango, *Freelancer*   01/2024 – 06/2024
- Performed preventive and corrective maintenance on computer equipment.   Durango, México
- Diagnosed and repaired hardware and software to ensure operational continuity.

Tech Stack: Technical Support, Hardware Diagnostics, Software Maintenance.

ACCA – Association Against Cancer, *Freelancer*   08/2023 – 12/2023
- Developed a resource management platform for a cancer support association.   Durango, México
- Implemented donation and recurring payment modules, improving financial transparency.
- Built a scalable system using React, Axios, .NET, and SQL Server, optimizing performance and maintainability.

Tech Stack: React, Axios, .NET, SQL Server.

Skills

Frontend
- JavaScript (ES6+), TypeScript
- React (Hooks, Context API, Inertia.js, Radix UI, shaden/ui, Headless UI, React Signature Canvas, Lucide React, Sonner)
- AngularJS (legacy)
- HTML5, CSS3, Bootstrap, TailwindCSS
- Leaflet (interactive maps), Recharts (charts)

Databases
- SQL Server
- MySQL
- MariaDB

Infrastructure & Cloud
AWS S3 SDK

Professional Skills
- Agile (Scrum)
- Technical support & equipment maintenance
- Database management
- Technical documentation

Backend
- PHP (Laravel, Laravel Sanctum, Laravel Fortify 2FA)
- Node.js (Express, Axios)
- .NET (C#)

Tools
- Git/GitHub
- Jira
- Figma
- DBeaver
- Visual Studio
- Vite (bundler y build tool)

Testing & Quality
- PHPUnit, Pest (PHP)
- ESLint, Prettier

Certifications

Cisco Networking
- CCNAv7: Introduction to Networks
- CCNAv7: Switching, Routing, and Wireless Essentials
- Cybersecurity Fundamentals – Cybersecurity Pathway