

BRAYAN ARTURO GONZÁLEZ BARRÓN

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EDUCATION

AUTONOMOUS UNIVERSITY OF NUEVO LEÓN

Monterrey, NL

School of Physical and Mathematical Sciences

B.S. in Computer Science

Aug 2015 / Dec 2020

PROFESSIONAL SUMMARY

Senior Full-Stack Software Engineer and Technical Lead with more than 7 years of experience designing, developing, and implementing enterprise solutions, including ERP, CRM, MES, WMS, and automation systems. Hands-on experience in software architecture, DevOps, and systems administration (SysAdmin), managing hybrid on-premises and AWS infrastructure, Linux, Docker, CI/CD, Nginx, private networking, and Site-to-Site VPN connectivity between local environments and AWS, including Sophos Firewall configuration. Business-results oriented, with experience in systems integration, technology modernization, and requirements gathering to build scalable, maintainable solutions aligned with organizational goals.

PROFESSIONAL EXPERIENCE

SELECTED SOFTWARE PROJECTS

Technical participation in enterprise software projects

Areas of Contribution

- Participate in process analysis, requirements gathering, solution design, development, testing, implementation, and support for enterprise software solutions.
- Collaborate with business areas and users to translate operational needs into enterprise web solutions, defining scope, architecture, priorities, and acceptance criteria.
- Design and implement ERP, MES, and WMS systems, logistics platforms, administrative portals, APIs, and integrations using primarily Laravel, Vue.js, MySQL, Python, and AWS services.
- Implement and administer infrastructure with AWS, Docker, Linux, Nginx, SSL, domains, S3 storage, and development, QA, and production environments.
- Participate in follow-up sessions, demonstrations, training, corrective/preventive support, and solution stabilization.

Selected Projects

- **Huasion Motor México | Apr 2026 – Sep 2026** — Analysis, design, development, and implementation of an automotive manufacturing execution and traceability system (MES), including coil receiving, production orders, DMC capture, pallets, NOK/scrap control, Poka-yoke validations, FIFO, public QR access, thermal printing, and Spanish/Chinese multilingual support.
- **Transportes Especializados CARMEX | Mar 2026 – Jun 2026** — Technical implementation to enable secure remote access to the LIS system and centralize modules in a web portal using AWS EC2, Docker, Nginx, SSL certificates, domains, and access controls.
- **Grupo Coexsa | Mar 2024 – Sep 2026** — Restructuring and evolution of a project management system covering architecture, database design, requisitions, purchasing, progress payments, contractors, cost centers, documentation, evidence management, S3, and separation of QA and production environments.
- **Ressidia | Jan 2026 – Sep 2026** — Design and development of a residential security and administration platform with role management, QR-based access, visitor and evidence records, resident-to-guardhouse communication, reservations, patrols, logs, APIs, and progressive integration with devices and hardware.
- **Additional projects** — Participation in technical assessment and solution definition for network infrastructure, transportation systems, point-of-sale, inventory, invoicing, software support, and corporate web platforms.

GRUPO LEA DE MÉXICO

Technical Lead / Senior Full-Stack Developer

(On-site) San Pedro Garza García, NL

May 2024 – Mar 2026

Responsibilities

- Led a development team of 5+ members, including task assignment, mentoring, and deliverable tracking.
- Defined software architecture and infrastructure for enterprise systems.
- Designed and implemented an ERP for logistics, inventory, warehousing, and administrative operations.
- Designed a service-oriented architecture using independently managed modules and databases, enabling communication through internal APIs.
- Made technology decisions for new integrations, tools, and frameworks.
- Implemented DevOps practices, including CI/CD, version control, environment management, and releases.
- Administered hybrid infrastructure across on-premises and AWS environments.
- Managed servers, networks, access controls, and security.
- Integrated and adapted open-source tools to internal business needs.

- Automated operational processes with Python, including integrations, scraping, and business workflows.
- Coordinated with business areas for requirements gathering and continuous improvement.
- Managed IT vendors and supported strategic technical decision-making.
- Standardized software development best practices and code quality guidelines.

Key Achievements

- Led the technology transformation of the department from an unstructured environment to a defined and scalable ecosystem.
- Executed the infrastructure migration to AWS, improving availability, control, and scalability.
- Designed and implemented CI/CD pipelines, reducing deployment errors and release times.
- Defined the base architecture of the enterprise ERP using a modular and decoupled approach.
- Implemented a help desk system adopted across the organization for incident management.
- Implemented and customized SuiteCRM to structure the company's sales process.
- Configured a private Site-to-Site connection in AWS between local and cloud infrastructure.
- Automated operational processes, eliminating repetitive manual tasks and improving productivity.
- Standardized development, QA, staging, and production environments.
- Established myself as the primary technical reference for architecture and technology decisions.

EIIMT (GMSG Holdings MX)

Senior Full-Stack Developer / Technical Lead

(Hybrid) San Pedro Garza García, NL

Feb 2023 – May 2024

Responsibilities

- Developed internal systems and custom commercial solutions.
- Designed and implemented modules on existing systems.
- Maintained and improved legacy codebases.
- Automated processes through Python scripting.
- Gathered requirements from clients and internal teams.
- Coordinated the team using Scrum methodology.
- Collaborated with UI/UX designers to build functional interfaces.
- Managed tasks and sprint tracking through Jira.
- Participated in team-level technical decision-making.

Key Achievements

- Reduced processing time for critical operations from 2 hours to 15 minutes.
- Designed and implemented a Raspberry Pi solution for real-time advertising content distribution.
- Assumed technical leadership after key roles became vacant, ensuring operational continuity.
- Implemented backend architecture improvements that increased scalability and maintainability.
- Optimized internal processes through automation, reducing manual workload.

INMAR WINSTON DATA

Mid-Level Full-Stack Developer / Technical Lead

(Hybrid) Guadalupe, NL

Oct 2021 – Feb 2023

Responsibilities

- Developed document digitization systems and process automation solutions.
- Developed APIs and integrations between internal and external systems.
- Automated workflows using Python.
- Designed business logic through functions and stored procedures.
- Optimized databases and complex queries.
- Developed operational dashboards.
- Maintained and improved legacy systems.
- Contributed to the department's technology modernization.

Key Achievements

- Led the migration of infrastructure from on-premises to AWS.
- Implemented Docker as a replacement for traditional virtualization, reducing costs.
- Developed an OCR system for automated document processing in the insurance industry.
- Designed an API architecture for integration among multiple systems.
- Implemented an internal logistics system for transportation and evidence management.
- Introduced modern technologies, including Laravel, Vue, and Django, raising the team's technical capabilities.

SITIUS (Remote) Monterrey, NL

Responsibilities

- Developed web applications, e-commerce platforms, and custom enterprise systems.
- Gathered requirements and worked directly with clients.
- Developed CMS, CRM, ERP, and credit management systems.
- Integrated payment gateways and external APIs.
- Optimized SQL queries and system performance.
- Designed functional interfaces and adapted legacy systems.
- Implemented software development and SEO best practices.
- Provided support, maintenance, and continuous system improvements.
- Provided technical leadership and support to the development team.

Key Achievements

- Implemented complete payment integrations with PayPal, Conekta, OpenPay, and banking providers.
- Developed an ERP system that automated approximately 60% of a client's administrative operation.
- Introduced Vue.js to the team, modernizing the frontend stack.
- Developed dashboards and analytics tools to support decision-making.
- Took on technical leadership responsibilities for the first time, supporting the team's growth.

ADDITIONAL TECHNICAL SKILLS

Backend

- PHP (Laravel), Python (Django), C#, .NET
- REST API and web service development

Frontend

- Vue.js, JavaScript, TypeScript, HTML, CSS, Bootstrap

Databases

- MySQL, PostgreSQL, SQL Server
- Query optimization, normalization, stored procedures, and functions

DevOps & Cloud

- AWS (EC2, RDS, S3, Lambda) and hybrid on-premises/cloud infrastructure
- Docker, CI/CD, GitLab, environment management, and releases
- Linux (Ubuntu, Debian), Nginx, Apache, private networking, AWS Site-to-Site VPN, and Sophos Firewall

Architecture & Systems

- ERP / CRM / CMS
- Process automation
- Systems integration and Generative/Agentic AI (LLMs, prompting, agents, coding assistants, and workflow automation)
- Infrastructure and networking