

ALONSO DAVID DE LEÓN RODARTE

Software Development · Business Intelligence · Systems and Databases

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PROFESSIONAL SUMMARY

Systems professional with 4 years of experience building and operating production software for a five-company business group. My work spans three areas: full stack development (React, Next.js, Node.js, and Python), business intelligence (SQL, Power BI, and report automation), and infrastructure and database administration (SQL Server, PostgreSQL, Linux, and Docker). I built the business intelligence platform that more than 30 people use daily, and I am responsible for the database server behind the corporate ERP.

PROFESSIONAL EXPERIENCE

Systems Assistant | PIAGA / Expert Group

Guadalupe, Nuevo León, Mexico · April 2022 – Present

Scope of role: development of the group's business intelligence platform, administration of the corporate ERP database, process automation, and IT infrastructure across five companies.

- Built ExpertGroup BI, a production business intelligence web platform with 30+ active users across the group's 5 companies, covering sales, inventory replenishment, and cash flow modules. Stack: React / Next.js, Python, PostgreSQL, and SQL Server on Docker.
- Administer the SQL Server instance behind the corporate ERP: backup and restore strategy, user, role, and permission management, index design and query optimization, and scheduled maintenance plans via SQL Server Agent.
- Automated commercial report generation with Python (pandas, openpyxl) against SQL Server, eliminating 6+ hours of repetitive manual work per week.
- Developed the multi-company cash flow module that consolidates roughly 1,300 monthly bank transactions from 16 accounts, with AI-assisted classification replacing manual data entry.
- Implemented and administer GLPI 11 on Docker for the group's IT asset and incident management, with automated inventory through agents on Windows, macOS, and iOS devices.
- Administer Linux servers and Docker deployments with nginx as a reverse proxy, including a production VPS running services continuously.
- Develop commercial analyses for leadership: sales projections by company and by salesperson, and customer portfolio segmentation by purchasing potential.

PROJECTS

ExpertGroup BI — React, Next.js, Tailwind, Python, PostgreSQL, SQL Server, Docker

Multi-company business intelligence platform in production. Includes role-based authentication, interactive dashboards, scheduled ETL jobs, and AI-assisted bank transaction classification.

Telegram pricing bot — Python, python-telegram-bot, SQL Server

Self-service tool that lets the sales team update prices in seconds without depending on the IT department. Calculates margins in real time against the ERP database and triggers an automated approval workflow when a margin falls below each company's defined threshold.

TECHNICAL SKILLS

Frontend: React, Next.js, JavaScript, TypeScript, Tailwind CSS, HTML5, CSS3

Backend: Node.js, Express, Python (FastAPI, Flask), REST API design

Databases: SQL Server (T-SQL): backups, permissions, indexing, optimization, and maintenance. PostgreSQL, MySQL / MariaDB. Schema design and normalization, analytical queries, window functions

Data and BI: Power BI (modeling, DAX), pandas, openpyxl, ETL pipelines, report automation, advanced Excel

Infrastructure and DevOps: Linux (Arch, Fedora, Ubuntu), Docker and Docker Compose, nginx, VPS, Git and GitHub Actions, Bash scripting

Systems and support: GLPI (asset and incident management), asset inventory and lifecycle, hardware maintenance, end-user support

EDUCATION

B.Eng. in Systems Administration Engineering | Universidad Autónoma de Nuevo León – FIME

San Nicolás de los Garza, Mexico · In progress, final semesters (expected graduation: [YEAR])

Technical High School Diploma in Computer Science | CONALEP Nuevo León – Don Carlos Maldonado Elizondo Campus

Santiago, Nuevo León, Mexico · 2019 – 2022

CERTIFICATIONS

Microsoft Technology Associate: Software Development Fundamentals — Microsoft / Certiport, 2020 (ID eKBm-FVK6)

Microsoft Technology Associate: Database Administration Fundamentals — Microsoft / Certiport, 2021 (ID waWbk-HaMC)

Microsoft Technology Associate: Security Fundamentals — Microsoft / Certiport, 2020 (ID epMN-FVpD)

Microsoft Technology Associate: Windows Operating System Fundamentals — Microsoft / Certiport, 2020 (ID oSUV-uGhQ)

EC0740 Labor Competency Certification, Computer Equipment and Software Maintenance — CONOCER / Mexican Ministry of Education, 2022

Microsoft Office Specialist Associate (Excel, Word, PowerPoint) and IC3 Digital Literacy — Certiport, 2019–2020

LANGUAGES

Spanish: native. English: technical reading proficiency (documentation and code); conversational skills in development.