Adelardo López Sirvent

Software Developer | Data Science & Business Intelligence

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PROFESSIONAL SUMMARY

Software developer with an MSc in Data Science and 4+ years in systems engineering. At Electriduct (U.S.), I build internal data tools, API integrations and Power BI reporting that turn sales, pricing and inventory data into faster decisions, saving teams an estimated 2–3 weeks of manual analysis per run. Strong foundation in Linux, networking and infrastructure. Seeking remote data and software roles where engineering and analytics meet.

TECHNICAL SKILLS

- **Languages:** Python, SQL, PHP, JavaScript, HTML/CSS, PowerShell, Bash
- **Data & AI:** Machine Learning (scikit-learn, XGBoost, Random Forest), model explainability (SHAP), credit risk modeling (PD), pandas, NumPy, matplotlib, seaborn, Jupyter, Gradio, Power BI
- **Web & APIs:** REST API integration (RingCentral), MySQL, e-commerce platforms (Shift4Shop)
- **Infrastructure:** Linux and Windows Server, DNS, DHCP, VoIP (Asterisk), Postfix, Active Directory, CI/CD (GitHub Actions)
- **Networking:** Juniper, MikroTik, Huawei OLTs

PROFESSIONAL EXPERIENCE

Software Developer — Electriduct · Pompano Beach, FL · Apr 2026 – Present

- Built 4 internal data tools: SKU price comparison across 7 sales channels, profit and break-even analysis, quantity-on-hand stock control, and cross-location price discrepancy detection, saving an estimated 2–3 weeks of manual analysis per run.
- Developed a PHP/JavaScript call-analytics dashboard on the RingCentral API; diagnosed missing call data (Analytics API limits, NY-to-UTC timezone bug) and migrated to the Call Log API.
- Own company Power BI reporting, maintaining and extending existing reports.
- Maintain e-commerce web infrastructure (Shift4Shop storefront, PHP application server), including the online careers application workflow.
- Automated QA of ~1,500 product image URLs with a PowerShell HTTP status checker.

Systems Engineer — Cableworld · Spain · May 2022 – Mar 2026

- Administered and monitored enterprise Linux and Windows servers.
- Deployed and maintained DHCP, DNS, VoIP (Asterisk) and mail (Postfix) services.
- Managed core network infrastructure (Juniper, MikroTik, Huawei OLTs).
- Provided Level 3 support for broadband, VoIP, IPTV and WiMAX services.
- Developed custom tools for network traffic monitoring, internal ticketing and documentation.

Court-Appointed IT Expert Witness — CNIPJ (Spanish National Body of Court IT Experts) · May 2024 – Present

- Provide technical expert opinions in judicial proceedings involving IT systems and data.

IT Intern, Systems Department — BMW Benigar · Spain · Jul 2021 – Aug 2021

- Supported Active Directory management, GPOs and user permissions.
- Assisted with system migrations and internal IT support.

PROJECTS

Credit Risk Prediction Model — MSc Thesis, Technical Lead · Python, scikit-learn, XGBoost, SHAP, Gradio · GitHub

- Built a probability-of-default model on Lending Club loan data (1.5M+ records, 145 variables), handling severe class imbalance (~1% default rate) with class weighting.
- Detected target leakage that inflated the first model to a near-perfect AUC, rebuilt the feature set using only application-time data, and validated a realistic model (AUC 0.65).
- Compared Random Forest and XGBoost, and deployed XGBoost in a Gradio web app that returns default probability, a 10-decile risk tier mapped to credit policy, and SHAP explanations per prediction.

EDUCATION

MSc in Data Science — KSchool / UNIR, Spain · 2024 – 2025

Focus on Machine Learning, AI and Big Data.

BSc in Computer Engineering, Information Systems — Polytechnic University of Valencia (UPV), Spain · 2018 – 2022

LANGUAGES

Spanish (native) · English (B2 certified, daily professional use in the U.S.)