

Alois Wirkes

Senior Software Engineer · Business Intelligence & Data

I'm a Business Intelligence and data engineering specialist with 10+ years of experience turning data from diverse sources into actionable insights and dashboards. My core expertise spans databases and data warehouses (Oracle, PostgreSQL, MySQL), ETLs (OWB, PDI), and building queries and analysis (PL/SQL) for visualization in BI suites (OBI, Tableau, Power BI) — increasingly complemented by AWS, Python, and dbt. I also have experience leading teams and BI projects, and I'm currently focused on integrating AI into data and BI workflows, alongside growing my project management skills.



Phone: +52 722 5570964

Email: hola@aloiswirkes.com

Location: Lerma, State of Mexico, Mexico

Availability: Remote work

LinkedIn: [linkedin.com/in/alois-wirkes](https://www.linkedin.com/in/alois-wirkes)

GitHub: github.com/wirkes

Upwork: [upwork.com/freelancers/~01e9f20bfb142f07cb](https://www.upwork.com/freelancers/~01e9f20bfb142f07cb)

PROFESSIONAL EXPERIENCE

Senior Software Engineer

KAVAK.com · Caracas, Venezuela

June 2020 – Present

- Built NetSuite extraction from scratch: after a native Workato connector failed, engineered a custom pipeline on AWS Glue using NetSuite's JDBC driver; it now runs stably across three instances (Global: Mexico and the UAE, with legacy EMEA data; Hispanic South America: mainly Argentina and Chile; and a dedicated Brazil instance).
- Independently led the migration of the Global NetSuite instance to the new NetSuite2.com data source, remapping renamed tables/columns with no disruption to downstream models.
- Built the Salesforce extraction pipeline (AWS AppFlow; Global and Hispanic South America instances), introduced to take load off NetSuite as client-facing workflows scaled with company growth.
- Own 15+ third-party data integrations end-to-end (Twilio, Amplitude, Slack, Jira, Vapi, Workday, among others), having built Reclame Aqui, Incent, and Reply fully from scratch.
- Contributed to the team's shift from hand-rolled Glue+Athena/Redshift queries to dbt (led by then-manager) by standing up a dedicated Redshift sandbox repository, helping both new and experienced engineers onboard onto the new workflow quickly.
- Played a hands-on engineering role in migrating the data platform from Redshift to Databricks (evaluated against Snowflake, led by current manager) to unify dashboards, integrated AI (Genie), and MLflow-based model training: migrated dbt models into the new Databricks repos and built the first automation "skills" to accelerate that migration.
- Implemented Parquet compaction across the NetSuite and Salesforce landing zones to cut S3 request volume and free up storage; maintain Airflow-orchestrated extraction pipelines and their credential/table lifecycle.
- Adopted AI-assisted engineering tooling (Cursor, Claude Code) into daily workflows and built internal data tools and skills to streamline other developers' work.

BI Specialist

e-ABC Learning · Caracas, Venezuela

May 2019 – May 2020

- Study and propose improvements for the internal analytics tool ELSA.
- Develop KPI dashboards for clients and specific topics, such as Mutual de Seguridad CChC (Chile).
- Orchestrate and develop a Machine Learning pilot project aimed at delivering a commercial product.

Data Integrator

Matrix CPM Solutions C.A. · Caracas, Venezuela

August 2018 – October 2018

- Served as data integrator on Claro Colombia's BI project, using ODI for ETLs and Tableau for visualization.
- Earned certifications in the HortonWorks tool suite.

Demand Management Lead

Veconinter C.A. · Caracas, Venezuela

May 2017 – January 2018

- Managed demand for IT incidents, requirements, and projects via a ticketing system.
- Led the company's website renewal project and HR system upgrade.

CERTIFICATIONS

SCRUM Foundation Professional Certificate (SFPC)

Apache Kafka Series – Kafka Connect Hands-on Learning

Big Data Without Mysteries

edX

March 2020

Complete Power BI Desktop Course

Udemy

November 2019

PartnerWorks Accredited Technical Track 1 and 2 Professional

HortonWorks PartnerWorks

August – October 2018

EDUCATION

Master of Business Administration (MBA)

IESA

April 2016 – February 2022

Bachelor's Degree in Computer Science, Databases

Universidad Central de Venezuela

2008 – 2015

LANGUAGES

Spanish

Native

English

Professional

INTERESTS

Artificial Intelligence

Big Data

Machine Learning

IoT

Project Management

High-Performance Teams

NoSQL

Open Data

Instructor

Universidad Central de Venezuela · Caracas, Venezuela

October 2015 – May 2017

- Taught the General Database Lab course (Oracle).
- Prepared teaching materials and installed/configured the Oracle database server for the labs.

Consultant

Tian Consultores C.A. · Caracas, Venezuela

November 2012 – March 2017

- Built a functional native Android app prototype (Java/XML) for surveys.
- Led BI projects for Seguros Mercantil S.A. (OWB + OBI) and the Central Bank of Venezuela (Pentaho Kettle + OBI).

TECHNICAL SKILLS

BI & ETL Oracle BI (OBI) • Tableau • Power BI • ODI • PDI (Pentaho) • OWB • dbt • Snowflake • Databricks • Apache Kafka • Apache Airflow	Databases Oracle • PostgreSQL • MySQL • SQL Server • DBever	Development & Tools Python • VS Code • Cursor • Git (GitHub, GitLab) • GitHub Actions • Docker • Jupyter • VirtualBox
Web Stack TypeScript • JavaScript • HTML5 • CSS • Supabase • Vercel	AI Claude Code • Codex • Ollama	AWS IAM • S3 • Glue • DynamoDB • Lambda • EC2 • ECR/ECS • EMR • MWAA • DMS • Secrets Manager • CloudFormation • LakeFormation
Operating Systems Windows • macOS • Linux (Ubuntu, Debian, ChromeOS)	Project Management Jira • Confluence	