

EDUCATION

2024

Diplomado Ciencia de Datos e IA
Facultad de Ingeniería, UNAM

2023

Diplomado Estadística en R
Instituto de Geología, UNAM

2018

Power BI Data Analyst
Microsoft Certification

2014

Diplomado Alto Rendimiento
Talento PEP — IMP

2013

B.Eng. Petroleum Engineering
Facultad de Ingeniería, UNAM
Cédula: 8361853

TECHNICAL SKILLS

PETROLEUM SOFTWARE

Wellflo Prosper Pipesym PVTflex

Pansystem

DATA & ANALYTICS

Power BI DAX Python R

Visual Basic

WEB & APPS

Firebase Astro HTML/CSS

OFFICE

Excel PowerPoint Word

LANGUAGES

Spanish

Native

English

Technical reading & written communication

AREAS OF FOCUS

- Reservoir Engineering
- Well Productivity & Nodal Analysis
- Production Analytics & Forecasting
- Data Science for Energy
- AI & Operational Optimization
- Digital Transformation O&G

PROFESSIONAL SUMMARY

Petroleum engineer with **10 years at PEMEX** specializing in well productivity and reservoir engineering across offshore and onshore assets. Developer of **ADPAY**, a Power BI production analytics platform that centralized monitoring of **~300 wells** across the Subdirección, eliminating manual data workflows and standardizing dashboards used in executive presentations. Currently applying Data Science and AI to operational challenges in the energy industry through **Kóritsu Consulting**.

WORK EXPERIENCE

PEMEX EXPLORACIÓN Y PRODUCCIÓN

Jan 2018 – Apr 2023

ACTIVO ABKATÚN POL CHUC · OFFSHORE, CAMPECHE

- ▶ **Data Science Engineer:** Developed ADPAY, a Power BI platform monitoring **~300 wells** across the Subdirección, eliminating individual data workflows and standardizing dashboards used in executive presentations.
- ▶ **Reservoir Engineer:** Volumetric estimation, production forecasting, and decline curve analysis; reserves reporting for the Abkatún Pol Chuc asset.
- ▶ **Project Engineer:** Supervised well workover operations on offshore marine platforms, ensuring operational continuity and HSE compliance.

PEMEX EXPLORACIÓN Y PRODUCCIÓN

Oct 2014 – Dec 2017

ACTIVO LITORAL DE TABASCO · TABASCO, MEXICO

- ▶ **Well Productivity Engineer:** Nodal analysis, pressure transient testing (PTA/PBU), and daily production monitoring for all active fields, supporting operational decisions and production optimization.

LEADERSHIP & INSTITUTIONAL

- ▶ **Led Talento PEP** — PEMEX professional integration program for **60+ petroleum engineers** across 2 production assets (Abkatún Pol Chuc & Litoral de Tabasco).
- ▶ **Treasurer**, Colegio de Ingenieros Petroleros de México — Sección Dos Bocas (2022-2024). Led digital voting implementation and collaborative initiatives for onshore and offshore engineers.

CURRENT

KÓRITSU CONSULTING

2023 – Present

INDEPENDENT CONSULTANT · O&G DATA SCIENCE & DIGITAL TRANSFORMATION

- ▶ Data analytics and AI-driven consulting for the energy sector; developing web applications and dashboards with Firebase, Python, and Power BI.