

# Alex David Ordonez

AI Engineer | Machine Learning Engineer | Data Scientist | AI Systems Builder

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## Professional Summary

AI Engineer and Data Scientist specializing in designing end-to-end intelligent systems that transform data, language, and user interactions into actionable insights. Experienced in building agentic AI architectures, scalable ML pipelines, and cloud-native solutions across healthcare, energy, and enterprise analytics. Proven ability to design and deploy AI systems that integrate data engineering and generative AI, delivering scalable, production-ready solutions.

Known for combining strong engineering foundations with product thinking to build AI systems that are reliable, explainable, and scalable.

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## Technical Skills

**AI & ML:** GPT 4/5, Gemini, Hugging Face, TensorFlow, PyTorch, LangChain, LangGraph, RAG, NLP, LSTM, Transformers

**Data Engineering:** SQL, PostgreSQL, MongoDB, Databricks, Snowflake, Spark, Qdrant, ETL/ELT, Vector Databases

**Cloud & MLOps:** AWS (Lambda, S3, SQS, EC2, API Gateway), GCP (Vertex AI, Cloud Run, BigQuery), Docker, CI/CD.

**Backend & APIs:** FastAPI, Flask, REST APIs, Microservices

**Programming:** Python, Java, JavaScript, C++, R, SAS.

**Analytics & Visualization:** Power BI, Tableau, Excel, Pandas, NumPy

**Front-End & UI:** React.js, Angular.js, Kotlin, Streamlit

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## Professional Experience

**AI/ML Specialist - Oakland University Business School** | Michigan | Sep 2025 - Present

- Designed and **deployed ML and LLM-driven pipelines** to process large-scale medical survey data, transforming unstructured responses into actionable insights for research and decision-making.
- Built an end-to-end analytics workflow integrating **data preprocessing, NLP modeling, and visualization**, accelerating insight generation and improving research productivity by ~50%.
- Developed an agentic **AI forecasting pipeline for AMI electricity consumption**, integrating data ingestion, time-series models, and an interactive AI chatbot interface using LangChain and Streamlit.
- Collaborated with faculty and cross-functional teams to translate research questions into scalable AI solutions.

**AI Engineer / Technical Lead - Product Manager Accelerator** | Michigan | May 2025 - Sep 2025

- Led the architecture and development of two AI-driven products:
  - **MyHandyAI:** an intelligent DIY assistant leveraging computer vision, vector search, and LLMs to generate step-by-step repair guidance.
  - **ClientSignalEQ:** an AI platform analyzing enterprise email communication to detect sentiment, behavioral patterns, escalation risks, and client signals.
- Designed **multi-agent LLM workflows using LangChain and OpenAI**, improving reasoning accuracy, robustness, and task decomposition compared to single-model pipelines.
- Built scalable **RAG architectures integrating MongoDB Atlas and Qdrant** to enable low-latency semantic retrieval and grounded LLM responses across enterprise data.
- Developed full-stack AI applications with **FastAPI** backend, React frontend, and cloud-native deployment on **AWS**.
- Built automated deployment **using GitHub Actions and Docker containerization**.

### **Data Analyst - Laureate Education** | Honduras | Dec 2021 – Nov 2023

- Designed and implemented **ETL pipelines using Python and Java** to integrate enterprise data into PostgreSQL and MongoDB warehouses.
- Designed enterprise-grade **PowerBI dashboards** to support business analytics, increasing visibility by ~30%.
- Developed a CSAT survey platform using **Python and AngularJS** to collect customer feedback at scale.
- Partnered with stakeholders to transform business requirements into data-driven solutions.

### **Data Engineer - Claro Enterprise Solutions** | Honduras | Jan 2021 – Nov 2021

- Automated ETL workflows for **large-scale telecom datasets** using Python, Java, Oracle DB, and Power BI.
- Built data retrieval and visualization applications to support enterprise reporting and operational analytics.
- Improved data processing reliability and reduced manual reporting efforts through automation.

### **Mobile Developer - Dinant** | Honduras | Sep 2019 – Apr 2020

- Developed an Android application using **Java and Kotlin** to track shipments across logistics hubs.
- Automated data collection workflows, improving operational efficiency by ~20%.

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## **Projects**

### **Sentiment Analysis & Clustering (Databricks):**

- Collected Google Play Store data using **Python scraping and stored it in SQL Server**.
- Performed **sentiment analysis with transformer models and clustered** users to identify behavioral patterns.
- Visualized **insights using Power BI** for decision-making.

### **SAS Hackaton, AMI Electricity Consumption Analytics (Agentic AI):**

- Built **forecasting and phase-detection models using SAS and Python**.
- Integrated **Gemini-powered AI agents** for simulation, optimization, and interactive analytics.
- Contributed to a **multi-award-winning** solution in SAS Viya Workbench and Sustainability tracks.

## **Education**

Master of Science in Business Analytics

Oakland University, Rochester, MI - 2024–2025

Bachelor's in Computer Science

Universidad Tecnológica Centroamericana, Honduras - 2017–2022

## **Certifications & Recognitions**

- SAS Workbench & Sustainability Champion – SAS Hackathon, Dec 2025
- AI Engineer Certification - Project Manager Accelerator, Jul 2025
- AI Agents Fundamentals – Databricks, Nov 2025
- Databricks Fundamentals – Databricks, Oct 2025

## **Languages**

English: Fluent (Professional level)

Spanish: Fluent (Professional level)