# Jose Lazo-Flores, Ph.D.
## Data Scientist

Data scientist and AI practitioner with a long, proven track record of turning complex data into impactful, real-world solutions. Thrives at the intersection of machine learning, business problem-solving, and collaboration, with a strong drive to explore emerging areas such as generative and agentic AI. Brings a scientific mindset, hands-on technical depth, and consulting experience to deliver AI solutions that create measurable value.
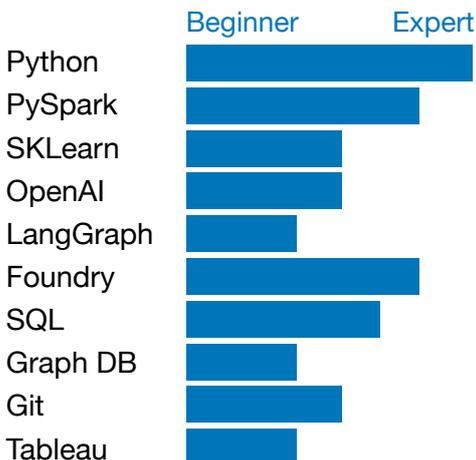
## CONTACT

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in https://www.linkedin.com/

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🤖 Digital Twin

## TOP SKILLS AND EXPERIENCE

- Data Analysis
- Data Processing
- Data Visualisation
- Agentic AI
- LLM prompting and fine tuning
- Machine Learning
- Project management
- Collaborating in diverse teams
- Translating complexity into clarity

## COMPUTING SKILLS

| Skill | Beginner → Expert |
|---|---|
| Python | ████████████ |
| PySpark | █████████ |
| SKLearn | ██████ |
| OpenAI | ██████ |
| LangGraph | █████ |
| Foundry | ████████ |
| SQL | ███████ |
| Graph DB | █████ |
| Git | ███████ |
| Tableau | █████ |

## RECENT WORK AND PROFESSIONAL POSITIONS

### ● RECENT WORK
07.2024 - Present

Machine Learning and Agentic AI projects are showcased here, featuring a mix of ML and Agentic AI applications, with demos available on my website.

- **Digital Twin Chatbox**
- **Traditional ML based analysis which identifies trend reversal positions in time series**
- **Swing Trading AI Agency**
- **Universal Translator and Language Tutor**
- **Deep Research Assistant**
- **Instructor Assistant**
- ✦ Projects Implemented using the following (as needed):
  Python, PyCharm, Cursor, Git, Pandas, OpenAI, MCP, Gradio, LangGraph, SQL, SKLearn, Plotly

### ● DATA SCIENTIST
03.2021 - 06.2024
Credit Suisse, Zürich

As a global bank, Credit Suisse generates and gathers vast amounts of data on a daily basis, which must be processed and analyzed in real time to extract actionable insights promptly.

- **Trade and Market Surveillance Analytics**
  - Data processing and trade rule implementation
- **Cyber and Internal Security Analytics**
  - Data processing and security program qualification implementation
- **Regulation Compliance Analytics**
  - Data processing and analytics implementation
- **Holistic Risk Management Framework Implementation**
  - Data processing and Holistic Risk Metric implementation, including proof of concept
- ✦ All projects done on Palantir Foundry using:
  Python, PyCharm, PySpark, Git, Pandas, SQL, SKLearn, Tableau

## RECENT SUCCESSES

○ *Implementation of LLM based workflows exploring the versatility and applicability of AI through various Agentic AI applications*

○ *Implementation Machine Learning Algorithms for Time Series Classification and Prediction Applications*

○ *Implementation of the Holistic Risk Management Framework and the Trader Contextual Surveillance (TCS) process. Foundry and PySpark based data processing and analyses that identify risk and trading activity for Credit Suisse*

## LANGUAGES

| | A1 | Fluent |
|---|---|---|
| English | ███████████ | |
| Spanish | ███████████ | |
| German | ████ | |

## ADDITIONAL DETAILS

Swiss Residence Type C
Date of birth: July 19, 1973

## EDUCATION

◉ Ph.D. Physics (2006)
  • Florida State University
  • Ph.D. thesis: "*Search for large extra dimensions in the exclusive photon and missing energy channel in proton-anti proton collisions.*"

◉ B.S. Engineering Physics (2000)
  • Embry-Riddle University
  • Thesis: "*Conceptual Manned Mission to Mars*"

## PROFESSIONAL POSITIONS AND EDUCATION

● **BUSINESS ANALYST**
09.2020 - 03.2021
Spring Professional, Zürich

Spring Professional is an HR agency assisting independent professionals acquire, manage and maintain short and medium term employment contracts. External contractor for Credit Suisse.
  • **Data Analytics and Visualization**
    - Foundry, Python, PyCharm, PySpark, Git
  • **Visualization Platform Management**
    - Python, Tableau Server and Tableau Desktop

**Co-FOUNDER and CTO**
12.2017 - 11.2020 (50%)
NJ Applications and Analytics GmbH, Zürich

Short lived technology company. Developed an application that facilitated the professional networking process using machine learning.
  • **AWS infrastructure design, implementation and maintenance**
    - Terraform
  • **Machine Learning algorithms and Business Intelligence analytics**
    - Python, SkLearm, Numpy
  • **Application backend implementation**
    - Neo4j, MySQL

**QUANTITATIVE DATA SCIENTIST**
06.2015 - 02.2018 and 11.2018 - 07.2020 (50%)
Quantum Analytics AG, Zürich

Quantum Analytics is a Data Science consulting firm with clients in varied industrial sectors such as Health Care, Energy, Insurance, Transportation, Telecommunications, Banking and Finance and more.
  • **Business Intelligence Analytics and Reporting**
    - Python, Git, PyCharm, Tableau
  • **Data Science Platform Design and Development**
    - MSSQL, PostgreSQL, Python
  • **ETL Implementation and maintenance**
    - MSSQL, PostgreSQL, Oracle DB SQL, Python
  • **Data Pipelines Implementation and Automation**

**POST-DOCTORATE FELLOW**
02.2009-12.2013
University of Nebraska and the Paul Scherrer Institute (PSI)
  • Commissioning and maintaining particle detector systems
  • Physics analysis with data from the Compact Muon Solenoid (CMS) Collaboration detector at CERN
  • Student advisor and supervisor