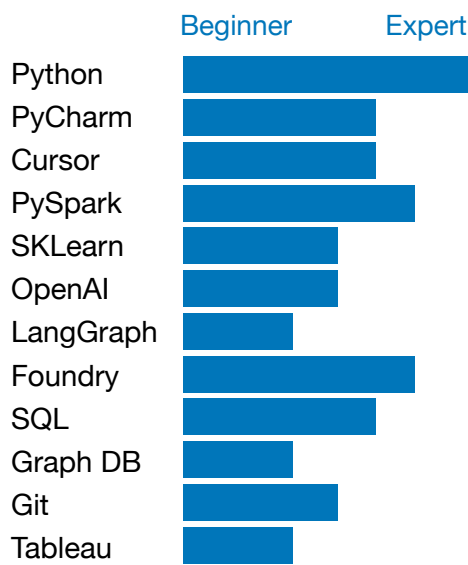# Jose Lazo-Flores, Ph.D.
Data Scientist

Motivated and dynamic professional with a long, detailed and proven record of accomplishments. Adaptable with an ability to work independently as well as in a collaboration with others to get things done.
I have spent my professional life as a scientist using data to identify and solve problems, to find information hidden within and to advance knowledge.
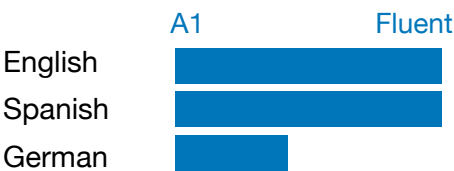
COMPUTING SKILLS

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

TOP SKILLS AND EXPERIENCE

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

LANGUAGES

Language	A1 → Fluent
English	████████
Spanish	████████
German	█████

PROFESSIONAL POSITIONS

DATA SCIENTIST
03.2021 - 06.2024
Credit Suisse, Zürich

As a global bank, Credit Suisse produces and collects large amounts of data every day. This data has to be processed and analysed in realtime in order to extract actionable information in a timely manner.

- **Trade and Market Surveillance Analytics**
- **Cyber Security Analytics**
- **Internal Security Analytics**
- **Regulation Compliance Analytics**
- **Holistic Risk Management Framework Implementation**

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**
  - ‣ **Visualization Platform Management**

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.

- **Technical development of data visualisation tools**
- **AWS infrastructure design, implementation and maintenance**
- **Machine Learning algorithms and Business Intelligence analytics**
- **Application backend implementation**

RECENT SUCCESSES

○ *Implementation of the Holistic Risk Management Framework. A Foundry and PySpark based data processing and analysis that identifies and highlights actionable risk within Credit Suisse*

○ *Implementation of the Trader Contextual Surveillance (TCS) process. A Foundry and PySpark based data process which monitors trading activity and generates alerts for trades requiring further scrutiny*

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

CONTACT

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📍 Leimbachstrasse 37
8041, Zürich, Switzerland

🌐 https://www.linkedin.com/

ADDITIONAL DETAILS

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

PRIVATE INTERESTS

✳ The stock market
✳ Quantitative Finance
✳ Astronomy
✳ Cosmology
✳ History of Science
✳ Philosophy
✳ Natural history

I very much enjoy watching documentary films on history, philosophy, nature and technology.

PROFESSIONAL POSITIONS AND EDUCATION

● **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**
- **Data Science Platform Design and Development**
- **ETL Implementation and maintenance**
- **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

● **POST-DOCTORATE FELLOW**
01.2007 - 01.2009
University of Tennessee posted at the European Organisation for Nuclear Research (CERN)
- Particle and radiation detector system development, installation and commissioning for CMS

● **Ph.D. RESEARCH FELLOW**
06.2003 - 06.2006
Florida State University at Fermi National Laboratory
- Physics analysis with the DØ collaboration
- Ph.D thesis: "*Search for large extra dimensions in the exclusive photon and missing energy channel in proton-anti proton collisions*."

● **TEACHING ASSISTANT**
01.2000 - 05.2003
Florida State University
- Instructor of Astronomy, Astrophysics and Modern Physics

● **RESEARCH ASSISTANT**
05.1999 - 08.1999
Jet Propulsion Laboratory (JPL)
- Data analysis for the Gravity Recovery and Climate Experiment (GRACE)

● **BACHELORS OF SCIENCE IN ENGINEERING PHYSICS**
08.1996 - 06.1999
Embry-Riddle University, Daytona Beach Campus
- Thesis: "*Conceptual Manned Mission to Mars*"