Hello
I'm Julio Zambrano

Mechatronics Engineer specialized in

Cloud Computing, Data Science and *Machine Learning*

Mexican citizen eligible for a NAFTA Professional work permit / TN Visa.

julio@jzambrano.xyz | https://jzambrano.xyz
Kaggle | LinkedIn | Xing | GitHub

Skills

- Python, R, JavaScript, MATLAB
- Microsoft Azure, Google Cloud Platform
- Google Cloud Machine Learning, Google Colab, Jupyter Notebook
- Scikit-Learn, H2O, Tensorflow, Pytorch, Visual Studio Code, Git
- Linux, Windows, MacOS
- Data Analysis, Problem solving, Teamwork
- Web Development, Computer Programming
- Copywriting, Communication | ES, EN, PT, IT, DE
- Time Management, Business Management, Customer Service
- **15 years of work experience at leading positions**
- **English: C1 Certificate**
- **Portuguese: C1 Level**
- **Italian: B2 Level**
- **German: B1 Certificate**

Experience

August 2020 - PRESENT
jzambrano.xyz, **Remote** - Machine Learning Engineer | Freelance

- Collected and documented users' requirements and developed logical and physical specifications
- Researched, evaluated and synthesized technical information to design, develop and test computer-based systems
- Developed data and process models to optimize architecture and to evaluate the performance and reliability of designs
- Assessed, tested, troubleshooted, documented, upgraded and developed maintenance procedures for applications software
- Cloud computing (Azure + Google Cloud Platform): monitoring, report automation (budget and availability), cost management, web apps, bot apps, web development and deployment, virtualization + containerization, Machine Learning + AI (H2O + Tensorflow).

  Key Achievements :

  - **Conference papers:**

- Rodrigo Cuéllar-Hidalgo, Julio de Jesús Guerrero-Zambrano, Dominic Forest, Gerardo Reyes-Salgado, Juan-Manuel Torres-Moreno. *LUC at ComMA-2021 Shared Task: Multilingual Gender Biased and Communal Language Identification without using linguistic features*. 18th International Conference on Natural Language Processing: Shared Task on Multilingual Gender Biased and Communal Language Identification. December 2021. Silchar, India.
- Julio de Jesús Guerrero-Zambrano, Gerardo Reyes-Salgado. *Comparison of Machine Learning Algorithms for the Preventive Diagnosis of Robotic Arms for Palletizing*. CINIAI 2021, Congreso Internacional de Inteligencia Artificial e Industria 4.0. November 2021. Jalisco, Mexico.

September 2017 - PRESENT
ICS Digital, **Remote** - Web Content Writer - Copywriter (ES, PT)

- Conceived and wrote material for online publication
- Conducted research to establish factual content and to obtain other necessary information
- Studied and determined selling features of products and services and wrote text for advertisements

  Key Achievement: Conceived and wrote the online content for the Copa América - Latam campaign for the online casino Betsson

Jun 2017 - PRESENT
Enida Translations, **Remote** - Freelance Translator and Quality Assurance (ES, IT, EN)

- Translated a variety of written advertising material from one language to another, maintaining the content, context and style of the original material to the greatest extent possible
- Revised and corrected translated material
- Identified the terminology used in the corresponding language for the niche of the products to be sold

February 2021 - October 2021
CENIDET, **Cuernavaca, MX** - Junior Machine Learning Engineer | Internship

- Collected and documented users' requirements and developed logical and physical specifications
- Researched, evaluated and synthesized technical information to design, develop and test computer-based systems
- Developed data and process models to optimize architecture and to evaluate the performance and reliability of designs
- Assessed, tested, troubleshooted, documented, upgraded and developed maintenance procedures for applications software
- Cloud computing (Azure): monitoring, report automation (budget and availability), cost management, web apps, bot apps, web development and deployment, virtualization + containerization, Machine Learning + AI (H2O + Tensorflow).

Key Achievement: Development of a Machine Learning model for preventive maintenance for robotic arms for palletizing (cobots)

January 2021 - December 2021
YoEd, Remote - Cloud Engineer | Azure

- Collected and documented the computational requirements of the startup and developed logical specifications
- Researched, evaluated and synthesized technical information to design, develop and test cloud-based systems
- Developed data and process models to optimize architecture and to evaluate the performance and reliability of the cloud system
- Assessed, tested, troubleshooted, documented, upgraded and developed maintenance procedures for the web application in Azure
- Development of a chatbot tool using LUIS (Azure)

August 2020 - February 2021
CENIDET, Cuernavaca, MX - Junior Machine Learning Engineer | Social Service

- Researched, evaluated and synthesized technical information to design, develop and test computer-based systems
- Assessed, tested, troubleshooted, documented, upgraded and developed maintenance procedures for applications software in cloud (Azure) and on-premises

  Key Achievements: Reached an agreement with a local company to develop a preventive maintenance system with Machine Learning for robotic arms. Provided introductory Machine Learning courses for the staff of that company

Oct 2016 - Jul 2017
Octorate, Rome, IT - Sales and Support Manager (America)

- Planned, directed and evaluated the activities of the sales department for America (US, Canada, Caribbean and Latin America)
- Lead the sales team in building relationships with business clients and managed negotiations of sales contracts
- Worked with the marketing department to understand and communicate marketing messages to the American market
- Translated a variety of written advertising material from one language to another, maintaining the content, context and style of the original material to the greatest extent possible
- Localized software and accompanying technical documents to adapt them to another language and culture (IT to ES, PT, EN)
- Conducted terminological research for the preparation of glossaries, technological files, and resource centres, and add to terminological databases

Key Achievement: Lead the company to boost start the sales of the software outside of Europe, achieving contracts with multiple clients in México, Canada, the US, Brazil, Chile, Perú and Argentina

Sep 2014 - Sep 2016
[Tim Hortons](), **Didsbury, AB, CA** - Food Counter Attendant / Night shift baker

Key Achievement: Helped the store to have a successful opening into a new location

Sep 2013 - Sep 2014
[CompuCom](), **Mexico City, MX** - Multilingual Help Desk Technician (ES, PT, EN)

- Communicated electronically with computer users experiencing difficulties to determine and document problems experienced
- Consulted user guides, technical manuals and other documents to research and implement solutions
- Emulated and / or reproduced technical problems encountered by users
- Provided advice and training to users in response to identified difficulties
- Provided systems, network and Internet support to users in response to identified difficulties
- Collected, organized and maintained a problems and solutions log for use by other technical support analysts (Knowledge base)

Key Achievement: Lead the support team for the PT and ES users in the Air Products campaign

Sep 2009 - Jul 2013
[Starbucks](), **Mexico City, MX** - Store Manager

- Planned, organized, directed, controlled and evaluated the operations of different cafeterias
- Implemented operational procedures to be carried out in the cafeterias
- Recruited staff and oversaw staff training
- Set staff work schedules and monitored staff performance
- Controlled inventory, monitored revenues and modified procedures
- Resolved customer complaints and ensured that health and safety regulations were followed
- Negotiated arrangements with clients for catering

Key Achievement: Successfully lead the opening of the Hospital Ángeles Metropolitano branch, overpassing the sales forecast by 100% after one year

Sep 2006 - Sep 2009
[Cinemex](), **Mexico City, MX** - Shift Supervisor (Audio and Image Projection)

- Established work schedules and procedures and coordinated activities with other departments

- Requisitioned supplies and materials
- Ensured smooth operation of computer systems, projection equipment and machinery, and arranged for maintenance and repair work
- Checked the condition of the movie copies; set up and load film reels on movie theatre projection systems, adjusted focus, sound levels and other projector and theatre settings; and maintained projection equipment

Education

Sep 2018 - Dec 2021
Instituto de Ingenieros de Morelos, **Cuernavaca, MX** - B. Eng. - Mechatronics

- **Top of the class:** Final grade 9.5 out of 10

Sep 2003 - Jul 2006
Colegio de Bachilleres, **Mexico City, MX** - Informatics Technician Diploma

Certificates and Diplomas

Jan 2022
Create and Manage Cloud Resources, **Google Cloud Skills Boost**

- Infrastructure Modernization Skill - Google Cloud

Jan 2022
Engineer Data in Google Cloud, **Google Cloud Skills Boost**

- Smart Analytics Skill - Google Cloud

Dec 2021
Integrate with Machine Learning APIs, **Google Cloud Skills Boost**

- Machine Learning and AI Skill - Google Cloud

Dec 2021
Explore Machine Learning Models with Explainable AI, **Google Cloud Skills Boost**

- Machine Learning and AI Skill - Google Cloud

Dec 2021
Perform Foundational Data, ML, and AI Tasks in Google Cloud, **Google Cloud Skills Boost**

- Smart Analytics Skill - Google Cloud

Nov 2021
Author, **CINIAI 2021, Congreso Internacional de Inteligencia Artificial e Industria 4.0**

- Julio de Jesús Guerrero-Zambrano, Gerardo Reyes-Salgado. *Comparison of Machine Learning Algorithms for the Preventive Diagnosis of Robotic Arms for Palletizing.*

Apr 2021
The Data Science Course 2021: Complete Data Science Bootcamp, **Udemy**

- Python, Jupyter Notebooks, Tensorflow, Modelling, Classification, Regression, Natural Language Processing, Image Processing, Recommendation Systems, Sentiment Analysis

Oct 2020
Curso completo de Machine Learning: Data Science con RStudio, **Udemy**

- R, R Studio, Modelling, Classification, Regression, Natural Language Processing, Image Processing

Sep 2020
Master en R para Data Science y Machine Learning, **Udemy**

- R, R Studio, Modelling, Data Wrangling, Data transformation, Model Deployment and Maintenance

Sep 2020
Machine Learning con R. Data Analytics de Básico a Experto, **Udemy**

- R, R Studio, Data Analysis, Modelling, Shiny, Classification, Regression

Aug 2020
Curso de R para Modelos Básicos de Machine Learning, **Udemy**

- R, R Studio, Regression, Classification, SVM, GBM, Neural Networks

Aug 2020
Professional Certificate Program: Data Science, **edX / Harvard**

- R, R Studio, Modelling, Data Wrangling, Data transformation, Model Deployment

May 2020
Python Programmer, **Instituto Tecnológico de Teléfonos de México S.C.**

- Structures, Algorithms, Data Types

Feb 2020
Professional Certificate Program: Ciencia de Datos, **edX / Tecnológico de Monterrey**

- Python, Tableau, Excel

Dec 2019
Microcontrollers Programmer, **Instituto Tecnológico de Teléfonos de México S.C.**

- PIC Controllers, Assembly Language, Arduino, C Language

Dec 2019
Microcomputers Programmer, **Instituto Tecnológico de Teléfonos de México S.C.**

- Raspberry, Python, Domotics

Aug 2019
Matlab Onramp, **MathWorks**

- Data Structures, Algorithms, Libraries

Aug 2018

[Data Analyst](), Instituto Tecnológico de Teléfonos de México S.C.

- Google Search, Excel, SQL, PowerPoint, Tableau, Python

Aug 2018

[Data Finder](), Instituto Tecnológico de Teléfonos de México S.C.

- Google Search, Excel, SQL, PowerPoint, Tableau

Oct 2017

[MicroMasters Program in Robotics](), edX / University of Pennsylvania

- Kinematics, Artificial Vision, Locomotion Engineering, Dynamics and Control, Artificial Intelligence and Machine Learning