


Wilmer A. Gonzalez S.


Machine learning engineer

Caracas, Venezuela.

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EXPERIENCE

• Serhant (through blocknerds.io)

(remote) Caracas, VE

Senior Machine learning engineer Lead

May 2024 - Present

- Design and implement +5 Real state LLM use cases, reducing advisors' waiting time by at least 20%
- Increase team productivity by establishing MLOps practices like Prompt versioning
- Develop Agents with tooling access to satisfy Real estate use cases

Technologies: Azure, Python, PromptLayer, LLMs, OpenAI ChatGPT, Claude, Langchain.

• The Hackett Group (through Develative)

(remote) Caracas, VE

AI Solutions Architect

Nov 2024 - Feb 2025

- Design architecture for LLM solutions related to BPMN
- Extend platform to include new LLM components

Technologies: Azure, Python, Django, LLMs, OpenAI, Langchain.

• Brightflow.AI

(remote) Caracas, VE

Machine learning engineer

May 2023 - Present

- Increase customer success team productivity by 10% by enabling model performance visibility on forecasting.
- Increase team productivity by 20% by establishing MLOps practices like model versioning and registry workflows.
- Develop a full-stack LLM component using financial data to generate insights for 100+ brands, increasing user engagement by 15%.

Technologies: AWS, Python, Typescript, React, MLflow, LLMs, OpenAI ChatGPT, Athena.

• CircleUp (Acquired by Brightflow.AI)

(remote) Caracas, VE

Machine learning engineer

August 2021 - May 2023

- Establish MLOps practices across 100% of ML use-cases of the company, reducing development time by 12%.
- Enable semantic comparison of 1.7M brands and a hundred thousand text attributes.
- Improve and maintain ML pipelines of millions of observations with tens of GB-scale text data.

Technologies: AWS, GCP, Python, PySpark, Airflow, Vertex, BigQuery, Dataproc, Tensorflow, BERT.

• Sigma

(remote) Caracas, VE

Senior Machine learning engineer

June - September, 2023

- Develop a misleading claims detection system for an advertising platform by using LLMs and prompt engineering.
- Integrate third-party ML services for feature detection and moderation on advertising creatives (image and text-based).

Technologies: Large Language Models (LLM), Prompt Engineering, Vertex AI, Google Cloud Platform (GCP), Python, Natural Language Processing (NLP).

- **UNDP (UN)**

Caracas, VE

Machine learning engineer

August 2019 - August 2021

- Provide summaries from opinions and trends by processing 1.1M tweets with Topic Modeling and transformer-based models, reducing analysis time by 25%.
- Reduce network analysis time by 83% by automating community and hub detection on hundreds of thousands of social media users' data.
- Sped up the analytical workflow by 75% by redesigning the sampling strategy of pipelines.

Technologies: Azure, Python, R, Bash, Gephi, Power BI, REST API, Vue, Airflow, Kubernetes, Tensorflow, BERT, NLP, Data engineering, Data visualization, Workflow orchestration, Social networks analytics.

- **Quash**

(remote) Caracas, VE

Machine learning engineer (advisor)

March - July, 2021

- Technical guide of the Data Science team.
- Decrease feature engineering time by 10% by creating 10+ data pipelines.
- Deploy personalized ML models for credit scoring, processing 10k+ applications across 5+ countries.

Machine learning engineer

February 2019 - March 2020

- Developed a customer-facing API for using our internal credit scoring model.
- Increased approval rate by 15% of customers while keeping the same risk by optimizing state-of-the-art ML models.

Technologies: Python, R, AWS, Sagemaker, S3, REST APIs, Docker.

- **Universidad Central de Venezuela**

Caracas, VE

Adjunct professor (Advanced topics in AI and data mining)

October 2018 - July 2024 (seasonal)

- Designed and organized course material and resources for topics described in *here*.
- Lecture material for tens of students and graded their assignments.
- Tutored thesis work on AI related to computer vision
(*Awarded with country-wise recognition for thesis work between 6 final candidates*).

Teaching assistant (Introduction to Data Science, Data Mining)

April 2015 - February 2018

- Designed and organized practical course material and resources for topics described in *here*.
- Lectured practical material for students and grade their assignments.

Technologies: Python, Latex, R, Weka, Colab, Jupyter and swirl.

- **Omdena**

(remote) Caracas, VE

Lead machine learning engineer

Jan - Apr, 2021

- Helped create a trust score for news articles by implementing a claim detection model.
- Improved usability of the product by creating a chrome extension connected to resultant models (blog post).
- Contributed to open-source projects (claimbuster-spotter) related to NLP and Deep Learning models.

Technologies: Python, Keras, Tensorflow, Falcon, REST APIs, Javascript.

- **Oliver Wyman**

(remote) Caracas, VE

July - November, 2020

Data engineer

- Enabled data pipelines processing by provisioning and configuring Airflow.
- Created DAGs for 30+ stored procedures from SQL Server scripts.
- Created DAGs for importing tabular data (1M+ records) to SQL Server.

Technologies: Python, Airflow, SQL Server, Jenkins, Rancher, Docker, Kubernetes.

- **Advoqt**

(remote) Caracas, VE

February - August, 2019

Machine learning engineer

- Enable malicious URL classification by developing a deep Learning model with $\approx 90\%$ accuracy.

Technologies: Python, Tensorflow, Elasticsearch and Spark.

- **Fetcher**

Caracas, VE

June 2018 - February 2019

Data scientist

- Decreased overload of sourcing teams by 10% by creating an automated allocation algorithm using Linear programming and Constraint Satisfaction techniques.
- Deployed load estimation models for tens of candidate sourcing projects for all recruiting teams.

Technologies: R, Shiny, Latex, SQL and Metabase.

- **Predictvia**

Caracas, VE

February 2016 - January 2017

Machine learning engineer

- Performed social network analysis on millions of social media users and posts to detect hubs, and performed supervised and unsupervised learning.
- Built and implemented classification models, perform feature engineering, and calibrated existing models.

Technologies: Python, bash.

TECHNICAL SKILLS

- **Programming languages:** Python, R, Bash, Julia.
- **Cloud services:** AWS (Lambda, S3, Sagemaker), GCP (AI Platform), Azure (Blob storage).
- **Deep learning frameworks:** Keras, Tensorflow.
- **Others:** xgboost, scikit, pandas, falcon, flask, fastapi, Docker, Kubernetes, Jenkins, Terraform
- **Currently learning:** Transformers models, Vue, Nodejs.

EDUCATION

- **Universidad Central de Venezuela** Caracas, Venezuela
B.Sc in Computer Science Sept. 2012 – Jun. 2018
 - Took elective courses on: Introduction to data science, Advanced topics in data science, Artificial Intelligence, Data mining, Text mining, NoSQL databases, Digital image processing.
 - (Thesis title) AdaBnn: Binarized Neural Networks trained with adaptive structural learning.

CERTIFICATIONS ([WITH LINKS](#))

- | | MOOC |
|---|------------------------------|
| • @ Udacity/Coursera | |
| <i>Machine Learning Engineering for Production (MLOps) Specialization</i> | <i>Issued July 2022</i> |
| <i>Machine learning engineer nanodegree</i> | <i>Issued March 2021</i> |
| <i>Deep learning specialization</i> | <i>Issued January 2021</i> |
| <i>Sequence models</i> | <i>Issued January 2021</i> |
| <i>Convolutional neural networks</i> | <i>Issued September 2020</i> |
| <i>Structuring machine learning projects</i> | <i>Issued May 2020</i> |
| <i>Improving deep neural networks: Hyperparameter tuning, regularization and optimization</i> | <i>Issued May 2020</i> |
| <i>Neural networks and deep learning</i> | <i>Issued May 2020</i> |
| <i>R Programming</i> | <i>Issued September 2016</i> |
| <i>Text mining and analytics</i> | <i>Issued August 2016</i> |
| <i>Text retrieval and search engines</i> | <i>Issued June 2016</i> |
| <i>The data scientist's toolbox</i> | <i>Issued June 2016</i> |
| <i>Data visualization</i> | <i>Issued March 2016</i> |

PERSONAL PROJECTS ([WITH LINKS](#))

- Philia: A Slack bot for empathy assessment in co-workers communications.
- AdaBnn: Binarized Neural Networks trained with adaptive structural learning.
- WarmChat: Chat room web app that classifies insults messages by using several classifiers.
- Small tool for generating frequent words analysis on the position names of LinkedIn Connections.
- Template for dockerized shiny (R) application deployment.
- Latex template for CVs with dark theme, with CV guidelines from google.

PERSONAL PUBLICATIONS ([WITH LINKS](#))

- Mahfuzur Rahman, Ann Chia, Wilmer Gonzalez. Fighting Misinformation and Fake News using NLP . 09/2021
- Sajidxa Mariño, Jesus Lares, Wilmer Gonzalez. Diode's Laser in Office Endoscopic Surgery Center for Nasal Obstruction and Snoring. J Med - Clin Res & Rev. 2018; 2(6): 1-3.
- Twitter, A data source for the academy (spanish).
- GitHub & Social Coding. Social network for programmers (spanish).
- Reproducible Research. Case of study: allocation of university places in UCV by OPSU (spanish).