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, using MCP.
  - Integrate services and REST APIs in workflows with n8n.

  Company summary: Real estate company building tools for advisors and agents through automations and AI.

  > **Tech:** Python, JS, Azure, PromptLayer, LLMs, OpenAI ChatGPT, Claude, Langchain, HuggingFace, MCP, n8n, CI/CD.

- **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

  Company summary: ERP Company assisting ideation of customer industries' use cases through Gen AI.

  > **Tech:** Python, Django, Azure, LLMs, OpenAI, Langchain, Huggingface.

- **Brightflow.AI**   (remote) Caracas, VE
  Machine learning engineer   *May 2023 - May 2024*
  - 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%.

  Company summary: CPG-focused company generating financial insights to brands using analytics and AI.

  > **Tech:** Python, Typescript, React, AWS, LLMs, OpenAI ChatGPT, MLflow, AWS 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.

Company summary: CPG-focused company identifying investment opportunities using AI

Tech: Python, PySpark, Airflow, AWS, GCP, Vertex, BigQuery, Dataproc, Tensorflow, Keras, Huggingface, 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).

  Company summary: Consulting company providing development to advertising companies for moderation.

  Tech: Python, GCP, Vertex AI, NLP, LLMs.

- **UNDP (UN)** Caracas, VE
  Machine learning engineer *August 2019 - October 2025 (seasonal)*
  - 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.

  Organization summary: UN's division focused on exploring and analyzing nations' development-related topics through social media

  Tech: Python, R, Bash, Azure, AWS, Gephi, Power BI, REST API, Vue, Airflow, Kubernetes, Tensorflow, BERT, NLP, Data engineering, Data visualization, Metabase, 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.

  Company summary: Fintech company focused on improving underwriting models in underserved populations using AI.

  Tech: Python, R, JS, Vue, AWS, Sagemaker, OpenAI, Vercel AI, 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.

  Academic summary: Assist in AI-related topics throughout a Computer science BSc' program.

  > **Tech:** 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.

  Project summary: Create an MVP for a disinformation platform focused on news articles through NLP.

  > **Tech:** Python, JS, Keras, Tensorflow, Falcon, REST APIs, Chrome extension.

- **Oliver Wyman** — (remote) Caracas, VE
  Data engineer — *July - November, 2020*
  - 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.

  Project summary: Assist the migration of procedures and pipelines across databases.

  > **Tech:** Python, Airflow, SQL Server, Jenkins, Rancher, Docker, Kubernetes.

- **Advoqt** — (remote) Caracas, VE
  Machine learning engineer — *February - August, 2019*
  - Enable malicious URL classification by developing a deep Learning model with $\approx 90\%$ accuracy.

  Company summary: Cyber-security firm building tools with AI.

  > **Tech:** Python, Tensorflow, Elasticsearch and Spark.

- **Fetcher**   Caracas, VE
  Data scientist   *June 2018 - February 2019*
    ○ 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.

  Company summary: Recruiting firm building tools for candidate selection and hiring analytics.

  > **Tech:** R, Shiny, Latex, SQL and Metabase.

- **Predictvia**   Caracas, VE
  Machine learning engineer   *February 2016 - January 2017*
    ○ 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.

  Company summary: Social media advertising company helping businesses target customers with AI

  > **Tech:** Python, R, Bash, Scikit learn.

TECHNICAL SKILLS

- **Programming languages:** Python, R, Bash, Julia, TS/JS.
- **Cloud services:** AWS (Lambda, S3, Sagemaker), GCP (Vertex AI, BigQuery), Azure (Functions, Blob storage, AKS).
- **Deep learning frameworks:** Keras, Tensorflow, Pytorch, HuggingFace, sbert.
- **Others:** xgboost, scikit, pandas, falcon, flask, fastapi, Docker, Kubernetes, Jenkins, Terraform
- **Currently learning:** Nuxt, 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)

- **@ Udacity/Coursera**   MOOC

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

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).