

Jose Esparza

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Summary

I'm a Software Engineer with extensive knowledge about Machine Learning, Data Science and Developing. My experience in both academics and industry makes me aware of novelty and fast driving, as well as good analytical skills. I worked with multi-national teams, mostly speaking the English language, giving me an integral communication fluency. My work is related with complex systems using large data pipelines, as well as performing analysis and applying machine learning models.

Education

- **Master of Science in Computer Science**
University of London
London — United Kingdom, September 2023 - Present
- **Summer School Attendant**
Skolkovo Institute of Science and Technology
Moscow — Russia, August 2020
- **Bachelor of Software Engineering**
GPA: 4.0
Leader of the FOSS Community between 2019 and 2020. [Highlighted student](#).
Universidad Privada del Norte
Trujillo — Perú, March 2016 - December 2020

Research interests

- Machine Learning and Deep Learning
- Algorithm analysis and optimization
- Applied Machine Learning

Languages

- **Spanish** — Native
- **English** — CEFR C2 Proficient (74/100)
[Certificate](#)

Scientific production and projects

- **Empowering Julia-based Data Science with MLflow**
Google Summer of Code — Open-source project
May 2023 — September 2023 – [Source](#)
- **Understanding the Issues Surrounding COVID-19 Vaccine Roll Out Via User Tweets**
The 10th International Conference on Computational Data and Social Networks — Conference paper
December 04, 2021 — doi: 10.1007/978-3-030-91434-9_18
- **Convolutional Neural Networks in Respiratory Conditions Detection: A Systematic Review of the Last 4 Years**
Summer School of Machine Learning at Skoltech — Research poster
August 16, 2020 — [Source](#)
- **SkinCareAI: A mobile application for skin affection detection**
Universidad Privada del Norte — Final course project
March, 2020 — July, 2020
Technologies: Python, PyTorch, Android, Firebase
- **Braille reader for blind education using computer vision techniques**
Universidad Privada del Norte — Final course project
October, 2018 — December, 2018
Technologies: Python, OpenCV, Tensorflow, Raspberry Pi

Professional experience

- **The New England Center for Children** Autism Education and Research
Senior Software Engineer March 2023 — Present
- **Google Summer of Code** Open-source program
Contributor May 2023 — September 2023
Integrating MLflow into the MLJ ecosystem, allowing communication with multiple framework modules.
- **Teamcore** Retail-oriented AI application
ETL Lead July 2022 — January 2023
Worked organizing, developing and maintaining the ETL processes of the company using Python, AWS, GCP, Jenkins and Jira.
- **Apurata** Fast and secure credit peruvian fintech
Software Engineer December 2021 — June 2022
 - **Backend developer:** Worked developing and maintaining the backend system (Apurata and aCuotaz using Python, MongoDB and AWS.)
 - **Data Scientist:** Worked creating credit scoring models for good payer detection and some visualizations using Jupyter, scikit-learn and Metabase.
- **Binghamton University** Public research university.
Research Intern January 2021 — August 2021
Worked on the analysis of large group of text corpora related to COVID-19 using NLP approaches: Term Frequency and Sentiment Analysis using Transformers on Python, and Topic Discovery with LDA and SeededLDA implemented on C++.
- **Barrick Gold Corporation** International mining company.
Temporal IT Analyst May 2021 — July 2021
Worked realizing and supporting the internal network analysis and migration from Barrick Gold Corporation to Boroo Gold using Windows Server, RHEL and Python.
- **Everis** Consulting and outsourcing company.
HPC Semi-Senior Developer February 2020 — December 2020
 - **INDITEX:** Worked on microservices project for raw material management platform using company tech stack: Spring, RHEL, PostgreSQL, SonarQube and Jenkins.
 - **Ministerio de Justicia (España):** Worked on decese and inheritance certificates system refactoring and reimplementation using Spring, WildFly, RHEL, OracleDB SonarQube and Jenkins.
- **Freelance Software Development**
 - **Boroo Gold** October 2021 — April 2022: Worked developing and maintaining the health and insurance document management system using Python, Typescript and MSSQL.
 - **Electronics Store** January 2020 — April 2021: Worked on the development of a web application for the management of a small business (technology business mostly) using Python, ReactJS and MySQL.
 - **DAVOS SALUD** June 2019 — December 2019: Worked on the development of a web application for the management of medical records using Python, MySQL and Typescript. Also trained a fastText model to classify emotions from social network reviews.

Skills

- **Programming languages:** C, C++, Java, Python, R, Julia, Bash, MATLAB, SQL
- **Operating Systems:** Windows, GNU/Linux
- **Databases:** MSSQL, MySQL, PostgreSQL, OracleDB, MongoDB
- **Tools and frameworks:** Vim, Git, L^AT_EX, Metabase, Tensorflow, PyTorch, Keras, NumPy, Pandas, NLTK, scikit-learn, Flux.jl
- **Cloud technologies:**
 - **Amazon Web Services:** S3, EC2, Athena, Lambda DynamoDB, CloudWatch
 - **Google Cloud Platform:** Looker, BigQuery, Cloud Run, Cloud Storage, Cloud Functions

Volunteering, honors and awards

- **Main Contributor**

JuliaAI — February 2023

I'm actively contributing to the organization, ensuring the support of the Machine Learning in Julia project (MLJ.jl).

- **WHO COVID-19 Research Database Indexed**

World Health Organization — August 2022

My research paper *Understanding the Issues Surrounding COVID-19 Vaccine Roll Out Via User Tweets* was indexed in the WHO COVID-19 Research Database.

- **REPU Alumni**

Research Experience for Peruvian Undergraduates — October 2020

I was one of the selected undergraduate students to be part of the REPU Computer Science 2021 program, mentored by Gisella Bejarano and being part of the laboratory lead by professor Arti Ramesh at Binghamton University.

- **Top 10% Spot, SMILES 2020**

Skolkovo Institute of Science and Technology — August 2020

I got an exclusive spot (top 10% of 2000+ applicants) to present my work: *Convolutional Neural Networks in Respiratory Conditions Detection: A Systematic Review of the Last 4 Years*.

- **Conference Organizer**

FLISoL — April 2019

Flisol Perú organizer, a conference about FOSS and community free knowledge. Trujillo, La Libertad — Perú.

Courses

- **R Bootcamp**
Data Science Research Perú
March 2023 — [Certificate](#)
- **Scrum Foundation Professional Certificate SFPC™**
CertiProf
February 2023 — Certificate ID 83527332
- **Deep Learning with Flux.jl**
JuliaAcademy
February 2023 — Certificate No. cert_my5hq86p
- **Julia for Data Science**
JuliaAcademy
February 2023 — Certificate No. cert_7d16st8h
- **Data Analytics for Ingestion and Validation**
Google Cloud Labs (sponsored by Teamcore)
December 2022
- **Introduction to Computational Thinking**
Massachusetts Institute of Technology
February 2021
- **Summer School of Machine Learning**
Skolkovo Institute of Science and Technology
August 2020 — [Certificate](#)
- **Deep Learning Specialization**
deeplearning.ai
September 2020 — [Certificate](#)
- **Machine Learning**
Stanford University
November 2019 — [Certificate](#)
- **Creation of a Professional Trajectory in Digital Security**
Organization of American States (OAS)
May 2019 — [Certificate](#)

References

- **Martín David Llauce Santos**
Technical Product Owner at Teamcore
davidllaucesantos@gmail.com
- **Jose Enrique Carrillo Pino**
Chief Technology Officer at Apurata
jose@apurata.com
- **Arti Ramesh**
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- **Gissella Bejarano**
Teaching assistant at Binghamton University
gbejara1@binghamton.edu
- **Rolando Javier Berru Beltran**
Professor at Universidad Privada del Norte
rolando.berru@upn.edu.pe
- **Victor Dávila Rodriguez**
Software Engineering School Director at Universidad Privada del Norte
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