

Simon Rendon Arango

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EDUCATION

Imperial College London

Master's Degree in Computing (Software Engineering)

London, United Kingdom

September 2023 – September 2024

Universidad de los Andes

Bachelor's Degree in Systems and Computing Engineering

Bogota, Colombia

August 2018 – April 2023

EXPERIENCE

Software Engineer

UNTAP

November 2024 – Present

London, United Kingdom

- Tech Stack: Java - React - GCP
- Developed a KPI and metric extraction system with 90% accuracy using LLMs with fine tuning and prompt engineering, reducing data ingestion time for clients in over 80%
- Developed an AI condition evaluator of investments according to client priorities
- Created a RAG based system for clients to be able to run custom queries over investment data of their companies using Big Query, Gemini and GCP

Software Engineer

Glamper

April 2023 - September 2023

Bogota, Colombia

- Tech stack: Python - Javascript - AWS
- Designed and created a fully serverless architecture that handled bookings, payments and users.
- Boosted bookings more than 50% by integrating an LLM system as a travel agent assistant capable of generating complete itineraries based on the platform's offer and destination information

Intern

Bancolombia

July 2021 – January 2022

Bogota, Colombia

- Reduced ticket resolution time in 35% for the infrastructure team by creating custom Jira - AWS integrations and dashboards on react to visualize and keep track of KPIs
- Collaborated with engineering teams in the migration from on-premise to cloud-based services.

PROJECTS

Performance Regression Detection in High-Performance Computing

Python, Tensorflow, Pytorch, SLURM, Gitlab CI/CD

MSc Thesis

- Created a regression detection system using Variational Autoencoders, capable of detecting 96% of regressions that have an impact over 1% in resource usage
- Reduced triage time for new open source submissions to under 3 hours while running the detection entirely on the same cluster where the CI/CD system runs.
- Decreased developer debug time in 50% by implementing a ranked system for possible regression causes using different clustering techniques.

F1 Race Outcome Prediction with ML | *Python, Tensorflow, scikit-learn*

BSc Thesis

- Built and cleaned a custom dataset from over 70 years of historical Formula 1 data, engineering domain-specific features.
- Achieved an accuracy of over 93% when predicting current season race winners
- Demonstrated predictive value for strategic simulations, including pit-stop timing and tyre choices.

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, JavaScript, TypeScript, Swift, HTML/CSS

Libraries: React, Node.js, Nuxt, Vue, Django, Material-UI, FastAPI **Developer Tools:** Git, Docker, CI/CD, GCP, AWS, VS Code, Tensorflow, Pytorch, Pandas, Numpy, Matplotlib, Scikit-learn

Concepts: Object-Oriented Programming, Domain Driven Design, Data Structures and Algorithms, NLP, GenAI, Machine Learning, Fine-Tuning, Prompt Engineering