

Jairo Ruiz Sáenz

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Open to Remote Work | [LinkedIn](#) | [GitHub](#) | <https://jairo.digital/>

Professional profile

Dynamic professional in Industrial Engineering with a Master's degree in Information Engineering. With 10 years of experience, I specialize in the development of data analysis and visualization projects, web applications, and process automation using Python, Django, AWS, and other technologies. My analytical skills and attention to detail have allowed me to participate in key initiatives, such as the implementation of a COVID case tracking dashboard for the Colombian presidency, as well as the implementation of a website for a healthcare sector startup.

Skills & Interests

Technical: Python, Django, HTML, CSS, JavaScript, Bootstrap, AWS, Docker, GitHub, Data visualization, Tableau, Metabase, D3.js, PostgreSQL, Linux, Jupyter Notebooks, Numpy, Pandas, Plotly, FastAPI, Leaflet, Jinja, Regex, VBA.

Languages: Spanish (Native), English (C1 – TOEFL 110/120 – 2022).

Interests: Road cycling, cooking

Education

Universidad de los Andes

Master of Information Engineering

Bogotá, Colombia

Oct 2019

- Relevant Coursework: Applied data science, Visual analytics, Improving the user experience, Development of cloud solutions, Machine learning analysis.

Universidad Sergio Arboleda

Specialization in Project Management

Bogotá, Colombia

Aug 2016

Universidad de los Andes

B.S. Industrial Engineer

Bogotá, Colombia

Feb 2013

Experience

Lead Data Scientist, National Planning Department (DNP)

Oct 2023 – Dec 2023 | Hybrid | Bogotá, Colombia

- Successfully led a diverse team of 10 professionals, including economists, mathematicians, and engineers, in executing 10 data science projects such as dashboard implementation, application deployment, and general machine learning (ML) projects.
- I managed the successful launch of the internal call within the DNP for data analytics projects that the Data Scientists Unit team will carry out during 2024.

Data Scientist, National Planning Department (DNP)

Nov 2019 – Nov 2023 | Hybrid | Bogotá, Colombia

- Developed and implemented 25 projects spanning Data Science, Business Intelligence (BI), and Web development to enhance public policy formulation and decision-making. Utilized regression, classification, and NLP models, crafted web scraping scripts, and generated visualizations using libraries such as NumPy, Pandas, NLTK, Scikit-Learn, Matplotlib, Seaborn, Plotly, Folium (or Leaflet), and integrated third-party APIs.
- Contributed to two Python open-source projects:
 - Implemented a class that creates an interactive HTML report for data quality information using the Jinja library. Additionally, generated library documentation files using Sphinx and deployed the website for [LEILA, a Data Quality Library](#) facilitating the verification of database content and providing quality metrics for informed decision-making in projects.
 - Developed data visualization functions and produced library documentation files using Sphinx. Deployed the website for [ConTexto, a Text Processing and Analysis Library](#) simplifying tasks around text (in Spanish) processing and analysis through Natural Language Processing (NLP).
- Architected, developed, and deployed dashboards and responsive web applications using Python libraries (Django, Dash, Streamlit), R (Shiny), Microsoft Power BI, Docker, HTML, CSS, JavaScript, and Bootstrap for accessible and interactive project result presentations.
- Collaborated within a 10-member data science team, taking on a mentoring role for junior team members.

Front End Developer, Docokids

Feb 2022 - May 2023 | Remote

- Led the development of the startup's new website, collaborating with the backend development team to ensure the correct application of the Django framework.

Last Updated: Feb 14, 2024

- Implemented brand-aligned graphics to enhance the overall website design, ensuring a cohesive and visually appealing user experience. Utilized coding skills in HTML, CSS, JavaScript, and Bootstrap to achieve these enhancements, resulting in higher engagement and increased traffic towards the website.

Data Analyst, Social Liability Fund of Colombia's National Railroads Aug 2018 – Dec 2019 | Bogotá, Colombia

- Managed and improved company databases through the implementation of data processing scripts and a data cleansing process, addressing issues such as incorrect, corrupted, incorrectly formatted, duplicate, or incomplete data within multiple datasets.
- Led the in-house development of an invoicing tool by creating a web application in Django for invoice generation and visualization, leading to a significant reduction in processing times.
- Generated overdue invoices totaling over USD\$500,000 within 6 months after the launch of the first prototype with PostgreSQL queries and Microsoft Excel (VBA – Visual Basic for Applications).

Business Intelligence Analyst, Rappi May 2018 – Jun 2018 | Bogotá, Colombia

- Supported the supply and demand planning team by analyzing datasets and key performance indicators (KPIs) using PostgreSQL and Python (Jupyter Notebooks) to forecast and visualize future demand accurately.
- Tracked the impact of adjustments in bonuses on the supply side, utilizing queries in PostgreSQL.

Data Analyst, Ministry of Information Technology and Communications Aug 2016 – May 2018 | Bogotá, Colombia

- Played a key role in the “[Big Data for the Measurement of the Information Society](#)” pilot project endorsed by the International Telecommunications Union (ITU), Claro, MinTIC, and DANE, by analyzing KPIs with Python.
- Contributed to periodical publications like the TIC annual survey and the postal sector quarterly newsletter, utilizing data analysis techniques and creating visualizations.

Master Data Analyst | SABMILLER – Colombia (2015)

Analyst | TERRITORIAL DEVELOPMENT FINANCIAL (FINDETER) – Colombia (2013 – 2014)

Freelance Experience

Freelancer as Software Developer, Upwork ([view profile](#)) Jul 2016 – Current | Remote

- Successfully worked as a Full Stack Developer in 35 assignments with 27 different clients.
- Demonstrated proficiency in a variety of project domains, including automation, web scraping, and web applications.
- Utilized a diverse set of languages and tools, showcasing expertise in Python, Django, JavaScript, HTML/CSS, Microsoft Excel (VBA), OCR.
- Collaborated seamlessly with a developer based in India on a specific project, showcasing effective cross-cultural collaboration.

Teaching Experience

Teaching Assistant - Visual Analytics Class, Universidad de los Andes Sept 2018 – Dec 2018 | Bogotá, Colombia

- Assisted in the [Visual Analytics](#) class by aiding in lesson preparation, conducting code reviews and grading student work.
- Offered additional assistance to students struggling with concepts, particularly in the fundamentals of web development and visual analytics—essential for success in the class. This involved hands-on guidance in using tools such as the D3.js library and web technologies like HTML, CSS, and JavaScript.
- Managed administrative aspects of the class, ensuring smooth operations by tracking attendance, grading assignments, and calculating final grades.

Additional Courses

- Currently enrolled in [Google IT Automation with Python Professional Certificate](#) on Coursera.
- [Programming with Google Go Specialization](#) – Coursera, University of California, Irvine – Meta Aug 2023
- [Foundations of User Experience \(UX\) Design](#) – Coursera – Google Mar 2023
- [Data Science Training 2021 DS4A](#) – Ministerio de Tecnologías de la Información y las Comunicaciones & Correlation One (2021)