

Juan José Cervilla

DATA ANALYST & SOFTWARE ENGINEER | SPANISH AND FRENCH DUAL CITIZENSHIP

44 Allée des Demoiselles, 31400, Toulouse, France

☎ (+33) 6 12 63 82 94 | ✉ juanjocervilla18@gmail.com | 🏠 cervillawebsite.netlify.app | 📷 [JuanjoCervilla](#) | 🌐 [juan-cervilla](#)

Aerospace engineer reborn as a software engineer, passionate for new technologies, data analysis and automation. With a strong foundation in engineering principles, I have quickly adapted to the complexities of working with vast datasets, mastering the latest tools, and adapting my skills to the constantly evolving **software** field. Committed to continuous learning and staying up-to-date with industry trends.

Work Experience

CGI	<i>Toulouse, France</i>
DATA CONSULTANT - PERMANENT CONTRACT	<i>Aug. 2023 - Today</i>
<ul style="list-style-type: none">Led the development of a Business Intelligence application, managing a team of 3 and coordinating closely with the data engineering teamAutomated ETL pipelines processing billions of rows using Python, dbt, PySpark, Apache Airflow, and Amazon S3Designed and optimized complex SQL queries, significantly improving dashboard performance and load timeEnhanced data visualization capabilities by integrating advanced charting libraries (Echarts/Chart.js) and custom Python scriptsManaged and maintained BI application infrastructure, including server/node management, user governance, and cache loading schedulesPerformed in-depth data analysis using Python and led the migration to open-source BI tools such as Apache Superset and Dash by PlotlyTools → Spotfire Python JavaScript HTML CSS SQL Power BI Node.js Dash-Plotly Superset PySpark Dbeaver PostgreSQL Hive Apache AirFlow	
AIRBUS on behalf of EXPLEO GROUP	<i>Toulouse, France</i>
DATA ANALYST & SOFTWARE DEVELOPER - PERMANENT CONTRACT	<i>Aug. 2021 - Jul. 2023</i>
<ul style="list-style-type: none">Preparation, follow-up and analysis of flight test campaigns in 1VGL team at AirbusDesigned and developed interactive dashboards using Dash and Qlik to analyze and visualize critical flight test data sourced from the datalakeBuilt and maintained multiple APIs to enable seamless data integration between dashboards and the datalake infrastructureApplied unsupervised ML algorithms (e.g., K-Means, HDBSCAN) for real-time anomaly detection in sensor dataAutomated routine workflows within the Google Workspace ecosystem using Python and Google APIs, improving task efficiencyTools → Python: Jupyter Notebook · Sklearn · OOP Dash-Plotly Flask Sqlite GitHub Qlik GSuite	
ALTEN	<i>Toulouse, France</i>
DATA SCIENTIST	<i>July 2020 - Feb 2021</i>
<ul style="list-style-type: none">Optimization of airline schedules : linear optimization model using GLPSOL optimizer and heuristic model evaluated by a cost functionTools → Python : GLPK command-line solver · OOP (Object Oriented Programming) SQL Github	
POMA	<i>Grenoble, France</i>
AERODYNAMIC ENGINEER INTERNSHIP	<i>Feb 2019 - Aug. 2019</i>
<ul style="list-style-type: none">CFD aerodynamic analysis using STAR-CCM+. Wind tunnel and CFD data comparison using linear and logistic regression algorithmsTools → Python Matlab Microsoft Excel VBA STAR-CCM+	

Education

Ecole Centrale Nantes - ECN	<i>Nantes, France</i>
DOUBLE DIPLÔME D'INGENIEUR	<i>Sept. 2018 - Sept. 2020</i>
<ul style="list-style-type: none">Specialization in Computer Science for Information SystemsDatabases, Object oriented programming, Discrete mathematics, Web programming, Software engineering, Systems and data securityPython JavaScript HTML CSS Java Git Unit testing	
Universidad Politécnica de Madrid - UPM	<i>Madrid, Spain</i>
B.S. + M.S. IN AEROSPACE ENGINEERING	<i>Sept. 2013 - Août 2019</i>
<ul style="list-style-type: none">Fluid Mechanics, Optimization Techniques, Propulsion Systems, Algebra, Programming, Flight Physics, ThermodynamicPython Fortran Matlab	

IT Skills

Programming	Python, JavaScript, SQL, Fortran
Web Application	Dash-Plotly, React, Express, HTML, CSS
Specific Software	Spotfire, Postman, Qlik, Power BI, Git, Github, LaTeX

Languages

Spanish	Mother tongue
French	Fluent - Niveau C2 - TFI
English	Fluent - Niveau C1 - IELTS

Personal Projects

Personal Finances Dashboard	Dash-Plotly · MySQL · Python · CSS
Home Recipes Web Application	React · Express · Tailwind · MongoDB · Node
Website Portfolio	React · HTML · CSS

Interests

Sports	High level training basketball for 10 years
Nature	Hiking, Running, Cycling
Reading	Economy, Philosophy, History