

Juan José Aguado

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EDUCATION

Pontificia Universidad Javeriana <i>Systems and Computer Engineering (Computer Science)</i>	Cali, VA Aug. 2020 – Jun. 2025
Pontificia Universidad Javeriana <i>Master in Data Science</i>	Cali, VA Jan. 2024 – Jun. 2026

EXPERIENCE

Tasker - Generative AI Models <i>Outlier</i>	Jun. 2024 – Present <i>Remote</i>
<ul style="list-style-type: none">Evaluated the performance of generative AI models (text, audio, image) based on criteria such as precision, instruction-following, and safety.Conducted evaluations in English, ensuring a high standard of language proficiency and communication in reports.Provided feedback on model's outputs, helping improve their accuracy and compliance with security protocols.	
Database Administrator <i>Fundación Casa de Colombia</i>	Jan. 2024 – Jun. 2024 <i>Cali, VA</i>
<ul style="list-style-type: none">Spearheaded the design, creation, and deployment of a comprehensive database for a software solution aimed at streamlining operations at Casa de Colombia.Developed and maintained PostgreSQL databases to efficiently manage and store crucial information, supporting the provision of essential health and education services to children.Utilized Jira for project management and issue tracking, ensuring efficient workflow and task management.Employed Git and Bitbucket for version control and collaborative development, maintaining a robust and organized codebase.	
Research Assistant - Applied Software Engineering Research Group <i>Pontificia Universidad Javeriana</i>	Jun. 2024 – Present <i>Cali, Colombia</i>
<ul style="list-style-type: none">Working on the university's automatic email sending service. Developed and modified functionalities using Java and Maven.Utilized Postman to test and validate API endpoints for automated email delivery.Collaborated with teams to enhance email service performance and maintainable code structure.Integrated solutions and performed troubleshooting on email service errors and logs to improve user experience.	

PROJECTS

UVa Programming Problems <i>Python</i>	January 2023 – June 2023
<ul style="list-style-type: none">Solved numerous programming problems from the UVa Online Judge, a platform hosted by the University of Valladolid with over 4300 problems.Utilized various data structures such as arrays, linked lists, trees, queues, and graphs to optimize solutions.Implemented algorithms including bisection, binary search, backtracking, dynamic programming, and greedy algorithms to solve complex problems.Gained deep understanding of problem-solving techniques and algorithm optimization through continuous practice and refinement of solutions.	
Statistical Analysis and Data Science Projects <i>R, Markdown</i>	January 2024
<ul style="list-style-type: none">Conducted comprehensive analysis of the real estate market in Cali, Colombia, using data from B&C real estate agency, focusing on property prices, locations, features, and sales.Preprocessed and cleaned real estate data, analyzed descriptive statistics, and created visualizations to communicate findings effectively.Performed various statistical simulations, including Monte Carlo Simulation to estimate the value of π, and analyzed bias, efficiency, and consistency of different estimators.Verified the Central Limit Theorem through simulations, observed its implications on sample distributions, and constructed confidence intervals using bootstrap methods.Built multiple linear regression models to predict real estate prices based on the area, validated model assumptions, performed hypothesis testing, and compared models to find the best fit.Developed a deep understanding of statistical analysis and data science techniques using R, enhancing skills in data manipulation, visualization, and modeling.	

COURSES

HarvardX CS50 | *Django, HTML, Git, CSS, Javascript, SQL*

April 2024

- Developed a full-stack web application using Django, implementing both the backend with RESTful APIs and the frontend with HTML, CSS, and JavaScript.
- Utilized Git and GitHub for version control and collaboration, ensuring efficient project management and code integrity.
- Implemented interactive features and dynamic content using JavaScript for seamless user experience.
- Designed and managed relational databases with SQL, ensuring data integrity and efficient query handling.
- Applied best practices in web security, testing, and deployment, ensuring robust and reliable applications.

SKILLS

Programming languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, Java

Frameworks: Django

Developer Tools: Git, Docker, VS Code, pgAdmin, Jira, Bitbucket, RStudio, VirtualBox, Google Colab, Eclipse, Maven

Libraries: pandas, NumPy, Matplotlib, SciKitLearn

Languages: spanish (native), english (advanced)