Ricardo Manuel Morales Gonzalez

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Summary

Software Engineer with a strong foundation in data systems and algorithm development, refined through academic training and professional experience in data analytics. Delivered measurable improvements in automation pipelines and API development, demonstrating proficiency in Python, C/C++, and database management. Committed to optimizing system performance and bringing data-driven insights to robotics applications in dynamic, collaborative environments.

Skills

- **Languages**: Java (4 yrs, Advanced), Python (3 yrs, Advanced), JavaScript/TypeScript (2 yrs, Advanced), C/C++ (2 yrs), SQL/sqlite/postgresql (2 yrs, Advanced)
- **Frameworks**: NodeJS, NestJS, LangChain, Chainlit, NextJS, Vite, React, FastAPI, Flask
- **Tools**: Git, Docker, Apache Airflow, Looker Studio, Tableau, Google Compute Engine, Postman, Vector Databases
- **AI/ML**: RAG Systems, DAG Systems, Prompt Engineering, Chatbot Development and Testing, Data Refinement
- **Software Engineering**: Software Architecture, Algorithm Development
- **Hobbies/Interests**: Spanish (Native), photography, video/photo editing, digital/web design

Experience

Ringer Sciences   **Jul 2024 - Jul 2025**
Data Analyst & Junior Data Scientist   *Remote*
- Designed and optimized data collection and processing pipelines using Python, LangChain, and Chainlit, improving chatbot response accuracy by 15% and ensuring efficient data synchronization.
- Engineered Apache Airflow automation systems to orchestrate data scraping and processing for over 30 articles per day, reducing processing time by 10% while enhancing data accuracy and structure.
- Developed API endpoints for processing and refining AI-driven responses connected to an image creation system, enhancing image production by 20% and supporting structured data management.
- Constructed interactive intelligence dashboards using Looker Studio and Tableau for multiple clients, delivering dynamic, real-time insights on live data.

The Johns Hopkins University   **Aug 2022 - May 2024**
First Year Mentor   *Baltimore, MD*
- Guided first-year students toward effective campus integration and academic success while coordinating collaborative outreach efforts with fellow mentors.

The Johns Hopkins University   **Aug 2023 - May 2024**
Teacher Assistant   *Baltimore, MD*
- Worked alongside Professors Lawrence Aronhime and Anton Dahbura to manage the Computer Science Innovation and Entrepreneurship class. Tasks included overseeing the development of 4 different software products, keeping track of progress and accountability alongside attendance, grading, and mentoring.

Education

The Johns Hopkins University   **May 2024**
B.S., Computer Science   *Baltimore, MD*
- **GPA:** 3.6/4.0
- **Coursework:** Full-Stack JavaScript, Artificial Intelligence, Databases, User Interfaces & Mobile Apps, CS Innovation and Entrepreneurship

Leadership

Futurism at JHU Podcast   **Aug 2020 - May 2024**
Co-Founder, CTO, and CEO
- Co-founded a student organization at The Johns Hopkins University researching, condensing, and producing stories for discussion with the use of Premiere Pro, After Effects, Adobe Audition, and Davinci Resolve.
- Aided in organizing reach out efforts through our public Instagram profile, posting videos and organizing introduction meetings for prospective members.