

SILVIA ESCOBAR

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PROFESSIONAL SUMMARY

Master of Science graduate in Information Systems Technology Management with certification in Artificial Intelligence. Seeking a full-time role in the fields of data engineering, data analytics, data science, machine learning, cloud computing, information technology management.

EDUCATION

THE GEORGE WASHINGTON UNIVERSITY, School of Business

Washington, DC

Master of Science, Information Systems Technology Management

May 2025

Relevant Courses: Python, IoT, Data Science, Foundations of Artificial Intelligence, Machine Learning, Web Development, AWS Cloud Practitioner, Azure Cloud Practitioner, Project Management.

UNIVERSIDAD DE ORIENTE, School of Humanities

San Miguel, El Salvador

Bachelor of Arts, English

May 2015

Relevant Courses: English Grammar, Phonetics, English Literature, Applied Linguistics, Historical Linguistics.

TECHNICAL SKILLS

Python, PyMuPDF, OpenCV, Tesseract, PaddleOCR, EasyOCR, LlamaIndex, FAISS, Chroma, Gemini API, Mistral, Phi-2, OpenAI Models, Streamlit, Gradio, Google Colab, Jupyter Notebook, HTML/CSS, Java, SQL, R, Tableau, BigQuery, Microsoft Office, Power BI.

EXPERIENCE

DISRUPTIVE OPS

Jackson WY

Data Engineer

March 2026 – Present

- Supporting the development of their Iron Pipeline solution <https://ironpipeline.us/> by providing core database engineering services.

EXTERN

Washington DC

Data Analyst

January 2026 – March 2026

- Analyzed unstructured employee feedback to identify workforce attrition risks, productivity blockers, and key operational pain points within Amazon Fulfillment Centers.
- Created segmented cohort profiles using qualitative data analysis and thematic coding to surface role-specific challenges and recommend targeted interventions.
- Developed business-ready briefing notes and strategy decks synthesizing frontline insights into actionable operational recommendations.

THE NATIONAL SOCIETY OF LEADERSHIP AND SUCCESS

Washington DC

Selected by campus administration to participate among top students in a leadership program. September 2025–February 2026

- Leadership Training Day: Trained in leadership and success skills via an introspective and interactive training session.
- Speaker Events: Participated in seminars led by celebrities and best-selling authors on topics such as leadership, time management, and goal setting.
- Success Networking Teams:
 - Experience in setting and achieving goals, receiving coaching, coaching others, and holding others accountable to commitments.

EXTERN

Washington DC

Data Science & Artificial Intelligence

October 2025 – January 2026

- Built modular, AI-powered pipelines to process 200+ page mortgage blobs—combining OCR (Tesseract, PaddleOCR), PDF parsing (PyMuPDF), and RAG techniques for intelligent data extraction, classification, and search.
- Developed a document retrieval system using LlamaIndex and Retrieval-Augmented Generation (RAG), optimized for multi-document mortgage blobs. Enhanced precision through chunk tuning, metadata filtering, and evaluation of open-source LLMs like Mistral and Phi-2.
- Conducted end-to-end evaluation of the document intelligence system on 200+ page mortgage blobs—benchmarking OCR accuracy, RAG retrieval quality, and routing performance. Delivered a technical report outlining model trade-offs, optimization strategies, final deployment recommendations, and built a UI for demo purposes.

ADDITIONAL INFORMATION

Leadership: Member of the National Society of Leadership and Success NSLS.
Certifications: AWS Cloud Practitioner, Artificial Intelligence (GWU), Google Data Analytics.
Involvement: Toastmasters International. Clustered Spired Chorus.
Languages: English/Spanish: Fluent.
Interests: Theatre/Acting, Dancing, Music.

