



Luis Lascano

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Education


B.S. Computer Science, *Georgia Institute of Technology*  Dec 2023
Atlanta, USA

- **Concentrations:** Artificial Intelligence and Modelling/Simulations
- **Affiliations:** GT Society of Hispanic Professional Engineers (SHPE)


Skills

Languages — Python, Java, C, Scala, JavaScript, ARM Assembly, HTML5, SQL, **Technologies** — PyTorch, TensorFlow, Sci-kit, Pandas, Matplotlib, NumPy, Docker, Anaconda, JupyterLab, GitHub, React, MySQL, Plotly, JSON, GeoJSON, OpenCV, BERT, CSS, D3JS, Tableau, PySpark, DataBricks, Latex, Stable Diffusion, GCC (GNU Compiler Collection), JetBrains IDEs, LLM (Large Language Models), Linux, **Relevant Courses** — Data Structures, Computer Networking, Adv. Algorithms, Computer Vision, Relational Databases, Web Dev, OOP, Combinatorics, Operative Systems, Processor Architecture, Transformers, Reinforcement Learning, Machine Learning, Deep Learning, Data Visual Analytics


Professional Experience

Data Analyst Intern, *Banco Sabadell - Miami Branch*  May 2024 – present
Miami, USA

- Developed an automated system for converting open-text address entries to ISO-20022 Hybrid standard, using Python, NLTK, and Google Geocoder within an Anaconda and Poetry environment.
- Enhanced data accuracy and consistency by standardizing global client addresses.

Software Engineer, *Thesys Technologies*  Aug 2023 – Mar 2024
Remote

- Orchestrated communication between client and development team, led decision-making on web frameworks resulting in adoption of WordPress and GiveWP
- Facilitated Scrum development process leading to 20% faster project delivery. Initiated web-server through GoDaddy and handled dependencies installation.

Machine Learning Teaching Assitant, *Georgia Tech*  Jul 2023 – Dec 2023
Atlanta, USA

- Transformed course assignments from static 2-D to dynamic 3-D interactive plotly visualizations resulting 25% increase of student engagement
- Used Anaconda and Pycharm to recreate 3+/week common student errors and provided class-wide online live feedback to clarify corresponding theory
- Graded 1000+ ML questions, 30+ QA Online replies, hosted 3 hours weekly in-person technical office hours, mentor of 4 Machine Learning projects.


Projects

Wine Recommendation Tool, *Deep Learning Final Project* Sep 2023 – Dec 2023

- Developed a Wine Recommendation Tool by engineering a Deep Neural Network architecture. Incorporated state-of-the-art BERT embeddings for preprocessing and utilized pyTorch layers to construct a precise mapping function from tokenized word-space to a diverse selection of over 300 wine types
- Achieved 83% train accuracy and 70% test accuracy, showcasing the model's robustness and effectiveness in real-world scenarios

Computer Networking in C, *Systems and Networks course* Jun 2023 – Jul 2023

- Upgraded the "transport" layer to increase reliability in simulated networking system by improving packet tracking, segmentation and reassembly.
- Used ACKnowledgements and NACK to improve the data transmission by 25% over a jittery signal

Atlanta Crime Data Analytics, *Police Station Location vs Crime Reports*  Nov 2021 – Dec 2021

- Conducted Atlanta crime data analytics, utilizing a K-means optimization clustering model with a custom distance equation. Processed using PySpark.
- Identified optimal police station locations resulting in a 31% reduction in crime proximity, enhancing community safety and law enforcement efficiency

Point of Sale Software, *Java + MySql Desktop App* Nov 2018 – Mar 2019

- Created a point-of-sale software solution using JReport for PDF generation, XAMPP, MySQL, and Java
- Implemented an innovative store accounting software that significantly reduced managerial time by 50%, streamlining operations and enhancing efficiency