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Max Montes Soza

LinkedIn
GitHub
Personal website

Education

Georgia Institute of Technology **2026 – Present**

- M.S. in Computer Science, **Machine Learning** specialization.

Boston, MA **Boston College** **Fall 2021 – May 2025**

- B.A. in Computer Science, B.A. in Philosophy. **GPA: 3.7 Cum Laude**. **800 Perfect Math SAT**.
- Relevant Coursework: Machine Learning, Algorithms, Operating Systems, Computer Networks.

Employment

Software Engineer **Microsoft Corporation** **Fall 2025 – Present**

- Building **LLM-powered** AI agent workflows for the AIAssist Copilot, enabling partners to interact with **generative AI** to generate and retrieve data at scale. **C#, Python, Azure**.
- Architected a scalable data pipeline for partner analytics, processing large-scale exports asynchronously via **Azure** on a scheduled cadence.
- Established **evaluation and QA practices** for AI outputs, implementing monitoring and iterative improvement via feedback loops.

SWE Intern **Microsoft Corporation** **Summer 2024**

- Engineered an **LLM-powered** Copilot plugin automating **~70** daily support tickets (**~$75 per manual review**). **C#**, **Cosmos**
- Implemented **RAG** patterns with **vector embeddings** and **prompt engineering** to deliver **context-aware**, personalized query results.
- Built an **orchestrated AI agent system** using **Semantic Kernel**, designing **agentic workflows** with structured prompting and context management.

Explore SWE Intern **Microsoft Corporation** **Summer 2023**

- Spearheaded a UX improvement project within **Cloud + AI**, enhancing a B2B SaaS marketplace with improved filtering, **accessibility**, and optimized data processing. **HTML/CSS/TS, React, C#.**

Researcher **Brain Health Alliance** **Spring 2021 - Fall 2021**

- **Researched and published (IEEE)** a bibliographic format convention with 26% greater read-write speed.
- Developed a bibliographic format converter with an import/export feature for use with LaTeX. **C#.**

Projects

- **Benchmarking Supervised Learning Algorithms.** Comparative analysis of DT, kNN, SVM, and Neural Networks on two classification tasks (45K+ samples). Implemented custom **PyTorch** MLP architectures and optimized hyperparameters with **Optuna**. **Python, PyTorch, Scikit-learn**
- **Short-Term Financial Market Prediction using Machine Learning.** Achieved **63% accuracy** in predicting short-term stock market performance by fitting a **random forest** and an **AdaBoost boosted decision stumps** model to selected stock indicators. **Python, Sklearn, Pandas, Matplotlib**

Languages and Technologies

- **Languages:** Python, C#, TypeScript, Java, C/C++, Rust, Swift, SQL.
- **ML/AI:** PyTorch, Scikit-learn, LLMs, Generative AI, RAG, Transformers, Prompt Engineering, Semantic Kernel, Pandas, NumPy.
- **Infrastructure:** Azure, React, Node.js, Linux, Firebase, Git.