

Eric E. Nunes

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Education

University of Massachusetts Amherst Master of Science in Computer Science

Amherst, MA
Expected May 2026

- **GPA:** 3.88
- **Selected Coursework:** Algorithms in Data Science, Decarbonization and Data Science, Machine Learning, Natural Language Processing, Reinforcement Learning, Research Methods in Computer Science, Simulation Methods

Texas A&M University

College Station, TX

Bachelor of Science in Computer Science; Minors in Mathematics and Statistics

May 2024

- **GPA:** 3.83, Magna Cum Laude
- **Awards:** Outstanding Undergraduate Leadership Award (2024), Peer Teaching Excellence Award (2023), Thigbe Hardworking Endowed Scholarship (2022), Dr. Richard Volz Memorial Scholarship (2022)
- **Selected Coursework:** Artificial Intelligence, Bayesian Statistics, Computer Security, Data Analytics in Cybersecurity, Data Structures, Databases, Information Retrieval, Machine Learning, Software Engineering, Statistical Computing

Experience

Walmart Global Tech

Sunnyvale, CA

Data Scientist Intern

Jun 2025 - Aug 2025

- Designed and implemented a robust data pipeline to enable scalable and accurate attribute extraction for Walmart's Google Merchant Center feed, resulting in a projected 3% increase in organic CTR and \$10M growth in GMV.
- Engineered and fine-tuned an NLP-based span prediction model for large-scale product attribute value extraction, utilizing 20M+ attribute-value pairs and computer vision techniques, and achieving an F1 Score of 84%.
- Conducted model benchmarking, hyperparameter tuning, and comparative analysis across different model architectures, optimizing for precision, recall, and business impact within Walmart Marketing SEO Team.

Microsoft

Redmond, WA

Software Engineering Intern

May 2023 - Aug 2024; May 2024 - Aug 2024

- Engineered a workflow for Windows Autopilot deployments extracting summary statistics on hundreds of thousands of entries per week, saving an estimated 500 hours among on-call Microsoft engineers per year.
- Performed privacy engineering and threat modeling on data pipelines by leading team discussions through privacy and security reviews for an internal telemetry logging feature.
- Developed a pipeline for an updated setting recommendation system in collaboration with the machine learning team on Microsoft Intune, increasing scope to over 10k settings with 16% reduction in user error.

Texas A&M University Department of Computer Science and Engineering

College Station, TX

Peer Teacher, Program Student Coordinator

Jan 2022 - May 2024

- Tutored over 50 students in computer science courses per semester with a 95% approval rate.
- Uploaded weekly review sessions to YouTube, netting over 4,000 cumulative views in the first year and over 8,000 lifetime views, including increasing a course's review viewership by over 150% from a previous semester.
- Awarded the 2023 Peer Teaching Excellence Award, given to one peer teacher per year for outstanding achievement.

Projects

A Reinforcement Learning Approach to Semantle Word Game [Python]

Mar 2025 - May 2025

- Developed an autonomous agent using Proximal Policy Optimization (PPO) integrated with a Greedy Best-First Graph Search strategy, outperforming LLM baseline with 8.5x increase in games solved within 200 guesses.
- Curated a Semantle vocabulary dataset of 1,200 entries and nearly 10,000 unique words using API data mining and Google N-grams for frequency-based filtering.

Identifying Clusters in NYT Connections [Python]

Dec 2024 - May 2025

- Developed a multi-model inference pipeline combining NLP word embedding techniques, a web-based word search API, and a knowledge graph, with LLM-based semantic reasoning for answer validation and re-ranking.
- Achieved a 40% improvement in solve accuracy and 25% improvement in first-round accuracy over baseline LLMs (GPT-4o) by leveraging structured knowledge sources and LLM inferences.
- Won 1st place out of 30+ teams at the university's Machine Learning Club project showcase.

Skills

- **Programming Languages:** Python, R, Scala, SQL, C++, JavaScript, Java, HTML, CSS, C#, TypeScript
- **Python Libraries:** Scikit-Learn, Pandas, Matplotlib, NLTK, PyTorch, Transformers, TensorFlow, Gymnasium
- **Technologies:** Apache Spark, Postgres, React.js, Node.js, dplyr, tidyverse, Git, Jira, Docker, LaTeX
- **Languages:** English (Fluent, U.S. Citizen), Portuguese (Advanced), Spanish (Intermediate), French (Beginner)