Eric E. Nunes

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Education

University of Massachusetts Amherst *Amherst, MA*
Master of Science in Computer Science *Expected May 2026*

- **GPA:** 4.00
- **Expected Coursework:** Algorithms in Data Science, Computational Biology & Bioinformatics, Data Science & Decarbonization, Machine Learning, Natural Language Processing, Research Methods in Computer Science

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
- **Selected Coursework:** Artificial Intelligence, Bayesian Statistics, Computer Security, Data Analytics in Cybersecurity, Data Structures, Databases, Information Retrieval, Machine Learning, Software Engineering, Statistical Computing

Experience

Microsoft *Redmond, WA*
Software Engineering Intern *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.
- Led team discussions on privacy engineering and threat modeling reviews for an upcoming Microsoft product.

Texas A&M University Department of Construction Science *College Station, TX*
Undergraduate Researcher *Feb 2024 - May 2024*

- Performed analysis of TxDOT Project Construction data on project delays under the supervision of Dr. Aryal Ashrant.
- Determined, using Python collaborative filtering methods, projects of similar scopes to forecast project delays.

Microsoft *Redmond, WA*
Software Engineering Intern *May 2023 - Aug 2023*

- Developed a pipeline for an updated setting recommendation system in collaboration with the machine learning team on Intune, increasing scope to over 10k settings with 16% reduction in user error.
- Implemented a setting recommendation feature as a domain-specific task for Microsoft Security Copilot, gaining expertise on prompt engineering and generative AI.

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 views since beginning the program, increasing a course's review viewership by 150% from a previous semester.
- Won the 2023 Peer Teaching Excellence Award, given to one peer teacher per year for outstanding achievement.

Projects

Let's Build a Music Recommender [Python, Flask] *Sep 2024 - Present*

- Leading a team of 20 students to develop a neural collaborative-filtering recommender tool across 15M album ratings.
- Teaching the data science lifecycle with a semester-long project for a student organization and a 90% approval rate.

Twitter Spam Detection and Analysis [Python] *Oct 2023 - Dec 2023*

- Used NLP and tree-based methods to determine spam among Tweets through analysis on hashtag use.
- Devised an expanded model to detect content polluters with an accuracy of 95.84%.

Album of the Week Website [React, Node, JavaScript] *Dec 2022 - May 2024*

- Developed a website for a student organization to centralize club activities for a club with over 60 active members.
- Automated club tasks with development of API commands, saving an estimated 120 hours among officers every year.

American Airlines Bag Prediction [Python] *Nov 2022 - Apr 2023*

- Managed a partnership between Texas A&M's Data Science Club and American Airlines to predict number of checked-in bags for flights, helping reduce costs through improved resource allocation.
- Led a team of over 50 students to build an XGBoost model with an R2 score of 84.1%.

Skills

- **Programming Languages:** Python, C++, Java, SQL, Scala, R, JavaScript, HTML, CSS, C#, TypeScript
- **Python Libraries:** Scikit-Learn, Pandas, Matplotlib, NumPy, Seaborn, NLTK, GenSim, PyTorch, TensorFlow
- **Technologies:** Apache Spark, Postgres, React.js, Node.js, Express.js, Git, Azure DevOps, Docker, LaTeX
- **Languages:** English (Fluent, U.S. Citizen), Portuguese (Advanced), Spanish (Intermediate)