Evan Gunderson

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Melbourne, Florida

# Education

## 8/2022-5/2026 B.S. Computer Science, Minor in Physics

## Florida Institute of Technology

## Major GPA: 3.5

# Selected Work

Accepted July 2025 **LLM-Based Benchmarking and Performance Assessment of Paraphrased Sentences;** Paper ID #: ICA9746, Springer Nature + Scopus: ICAI'25; Publication with an acceptance rate between 18 and 24%

Presented April 2025 **A Structured Query System for Document Mining for Large Databases with LLM Generated Data;** Emerging Researchers National (ERN) Conference 2025

# Experience

## 2023-Present Research Assistant, Department of Mathematics & Systems Engineering

### Florida Institute of Technology

Applied large language models to datasets of varied sizes related to government standards and cancer under grants from NASA and the Department of Health.

Made use of current machine learning and deep learning libraries. Explored and developed with AI, ontologies, LLMs, black box testing & benchmarking, fine tuning, RAG, and databases.

Gained deep experience with Microsoft Power Platform and Python. Prepared for and presented in meetings with NASA collaborators.

Wrote GPU code with both TensorFlow and PyTorch.

## 2024-Present Research Volunteer, High Energy Physics Laboratory Florida Tech

Developed and connected software for particle physics simulations. Led team of 5 undergraduate students working on codes primarily in C++ as part of the EIC collaboration.

Gained extensive experience in a Linux terminal.

Worked with Pythia8, dd4hep, Geant4, Mathematica, FeynRules, Madgraph, and other software for physics simulation.

## Summer 2024 **Mentor,** Statistical Modeling REU

### National Science Foundation (NSF)

Aided students participating in the 2024 REU funded by the NSF. Provided guidance on paper writing, machine learning, statistical modeling, deep learning, and reviewing literature.

Gained experience with geospatial, cancer, and climate data for ML applications.

Summer 2025 **Research Assistant, Department of Electrical Engineering and Computer Science**

Created physics simulation using Gate by OPENGATE for SPECT devices. Generated realistic synthetic data for use in deep learning models. Gained experience in parallelization, medical imaging, deep learning, and medical physics. Used Python and C++

# skills

Data Structures, Algorithms, Databases, Azure, Research & Development, LLM’s, Software Engineering, Physics Simulations, High Energy Physics, Machine Learning, AI, DL, Automation, version control, Python, HTML, C++, Java, C, C#, R, x86 & Linux ASM, BASH, Presentations, Software Engineering, Operating Systems, French, OOP, Golang, Fortran, Dart, TensorFlow, PyTorch, cuDNN, CUDA, Reinforcement Learning.

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