

Trevor Gross

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EDUCATION

University of Florida (Honors)

Gainesville, FL

Bachelor of Science in Computer Science, Minor in German, Certificates in AI and Eng. Leadership

May 2026

Cumulative GPA: 3.94/4.00

Coursework: Machine Learning, Linear Algebra, Statistics, Data Structures, Software Engineering, Operating Systems

TECHNICAL SKILLS

Data Science & ML: NumPy, pandas, scikit-learn, PyTorch, TensorFlow, Matplotlib, SQL

Languages: Python, C/C#/C++, SQL, Julia, Kotlin, Java, JavaScript, TypeScript, R

Frameworks: Node.js, React, Angular

Developer Tools: AWS, Git, Linux, Docker, Jupyter, MongoDB, Postman, Jira, CircleCI

EXPERIENCE

Undergraduate Research Assistant

Jan. 2025 – Present

The GATAS Lab, Florida Institute of National Security (FINS), University of Florida

Gainesville, FL

- Developed distributed optimization algorithms to improve coordination across **decentralized systems**
- Expanded quadrotor control dynamics research using sheaf Laplacians and LQR
- Accepted into **IEEE Conference on Decision and Control 2025**: arxiv.org/abs/2504.02049

Software Development Engineer Intern

May 2025 – Aug. 2025

Amazon, Inc.

Austin, TX

- Eliminated **1,500 hours** manual analysis by building a machine learning pipeline that automated internal business calculations from operational datasets
- Led development of a **production AWS application** using Coral CDK, integrating SageMaker AI
- Contributed in a **large, fast-paced team** through daily standups, code reviews, and technical discussions
- Conducted a training workshop to **onboard business partners** to the application

Software Development and IT Intern

May 2024 – Aug. 2024

Trane Technologies plc

Davidson, NC

- Improved data processing efficiency by **97%** via a new data filtering and visualization tool using Python that automated 10+ hours of manual work weekly
- Reduced load times** by developing a new database organization in C# for Trane Select Assist
- Expedited retrieval for natural language processing database by **implementing vector embeddings**
- Conducted focus groups to gather **user feedback** on Trane Technologies' AI tool
- Secured **1st place** in student competition by presenting a sensor-based monitoring solution to **executives**

PROJECTS

Commercial Autonomous Processing in Space | *Python, PyTorch*

Aug. 2025 – Present

- Developed an **end-to-end reinforcement learning pipeline** for autonomous satellite sensor tasking, integrating orbital simulation, environment modeling, and policy training within a scalable testing framework
- Evaluated autonomous tasking policies against heuristic and greedy baselines, **reducing missed targets by 10%**
- Engineered a scalable experimental testbed for satellite autonomy research, enabling rapid experimentation with **RL reward shaping**, mission constraints, and orbital configurations

Facial Expression Analysis with CNN for Emotion Recognition | *Python, TensorFlow*

Mar. 2024 – Apr. 2024

- Achieved a **75.6% test accuracy** by developing a Convolutional Neural Network in TensorFlow and Keras, 10% higher accuracy than the average Kaggle submission
- Increased training sample size by **6x** through data augmentation, improving classification on the FER-2013 dataset
- Tuned **Naïve-Bayes and Logistic Regression** baseline models to 35% peak test accuracy

LEADERSHIP

President

Apr. 2025 – Present

Florida Engineering Society

Gainesville, FL

- Elected to lead **500+ member** professional engineering organization; directed **5-member executive board** to restructure strategy and external engagement model
- Increased average event attendance by **50%** and **tripled company-sponsored programming** by expanding outreach channels and formalizing corporate partnership tiers
- Designed and launched the first FES Student Conference, coordinating **70 students from 7 Florida universities**, securing external sponsorships, and building a cross-campus collaboration model now positioned for annual expansion