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. Innovation *May 2026*

Cumulative GPA: 3.94/4.00
Coursework: Machine Learning, Linear Algebra, Statistics, Data Structures, Software Engineering, Operating Systems

Technical Skills

Languages: Python, C/C#/C++, Julia, Kotlin, Java, JavaScript, HTML, CSS, ARM, MATLAB, R
Frameworks: Node.js, React.js, Angular.js, jQuery, Wordpress
Developer Tools: AWS, Git, Linux, Docker, Jupyter, MongoDB, Postman, Jira, CircleCI, Visual Studio, IntelliJ
Libraries: PyTorch, TensorFlow, Keras, scikit-learn, Matplotlib, NumPy, pandas, SciPy, openpyxl, SFML

Experience

Software Development Engineer Intern May 2025 – Aug. 2025

Amazon *Austin, TX*

- Eliminated **1,500 hours** of work by automating manual calculations using **machine learning**
- 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

Undergraduate Research Assistant Jan. 2025 – Present

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

- Developing **distributed optimization** routines for consensus optimization problems
- Proposing the alternating direction method of multipliers in **homological programming**
- Computing numerical examples in Julia for **multi-agent model predictive control**

Software Development and IT Intern May 2024 – Aug. 2024

Trane Technologies *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

Unsupervised Parsing of AMR Graphs | *Python, PyTorch* Jan. 2025 – May 2025

- Proposing a sequence-to-sequence approach to developing an **AMR parser**
- Training **encoder** by parsing tokens to create AMR graphs, then **decoding** into text and computing cross-entropy
- Evaluating based on the **SMATCH, SemBLEU,** and similar metrics on human-annotated samples

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*

- Leading outreach initiatives that foster **professional development and networking** for Gator engineers
- Increased engagement **by 50% for 200+ students** by establishing partnerships with industry professionals
- Boosted mentorship program attendance **by 150%** and **doubled** the number of major networking events