

# Youval Kashuv

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## EDUCATION

### University of Florida

*B.S. Computer Science, B.S. Mathematics*

Gainesville, FL

Expected May 2026

- GPA: 3.93/4.0, NSF REU Fellow, National Merit Scholar, Benacquisto Scholar
- Relevant Coursework: Machine Learning, Reinforcement Learning, Numerical Analysis, Operating Systems, Data Structures
- Skills: C++, Python, Java, PyTorch, scikit-learn, NumPy, pandas, polars, MySQL
- Specializations: State Space Models, Transformers, Pruning/Sparsity, Graph Neural Networks

## EXPERIENCE

### Headlands Technologies

*Research Intern*

February 2025 – Present

Remote

- Deep neural networks for high frequency trading, subject to NDA.

### Cuffed

*Machine Learning Engineer Intern*

July 2024 – Sep. 2024

New York, New York

- Trained and evaluated several **multimodal** deep learning models to predict if a user is likely to swipe left/right on another user for improved deck creation using Python, NumPy, pandas, and PyTorch.
- Increased prediction accuracy by 64% and precision by **167%**, when compared to naive approaches.
- Built off of Gale-Shapley algorithm for optimal matching and deployed model on AWS SageMaker for deck creation.

### University of Florida

*ML Research Intern (NSF REU)*

May 2024 – Aug. 2024

Gainesville, FL/Remote

- Preprocessed **100 GB** of tweets using pandas and extracted signals indicative of positive/negative norm propagation.
- Developed a novel graph-based model (TGNN) using NumPy and PyTorch to predict when users will adopt a social norm, successfully identifying behavioral shifts with an **AUC of 0.95**.
- Solely responsible for all aspects of the project, including problem formulation, methodology design, data pre-processing, implementation, model training, and inference evaluation.

### Intrinio

*Machine Learning Engineer Intern*

May 2023 – Aug. 2023

Remote

- Designed, developed, and tested an ML (RNN/LSTM) model for predicting key financial metrics (e.g. EBITDA), achieving **70%** accuracy on real market data; used technologies such as pandas, NumPy, and PyTorch.
- Used pandas and **BeautifulSoup** to build an end-to-end data pipeline that automatically parses 8-K SEC filings and standardizes/extracts information which provided new data from over **1,000** publicly traded companies.

## PROJECTS

### Federated Fraud Detection — python, PyTorch, NumPy, scikit-learn, pandas, matplotlib

- Implemented and trained a ML model in a federated learning setting for **privacy preserving** fraud detection of credit card transactions, successfully achieved **>96%** accuracy on datasets with upwards of 20 clients.
- Securely aggregated model weights from multiple banks without sharing customer data, reducing the risk of data breaches while maintaining model performance.
- Leveraged **multi-GPU training** for each participating bank and implemented efficient model aggregation, achieving a 20x speedup in overall training time and enabling near real-time fraud detection capabilities.

## PUBLICATIONS

*Hephaestus: Mixture Generative Modeling with Energy Guidance for Large-scale QoS Degradation*, Nguyen Do, Bach Ngo, Youval Kashuv, Canh V. Pham, Hanghang Tong, My T. Thai, NeurIPS, 2025

*Predicting User Tipping in Online Social Networks with Temporal Graph Neural Networks*, Youval Kashuv, Raed Alharbi, and My T. Thai, IEEE Transactions on Computational Social Systems, Sep. 2025

*Norm Propagation in Online Communities: Structural, Temporal, and Community Analysis*, Raed Alharbi, Youval Kashuv et. al, Springer Social Network Analysis and Mining, Sep. 2024

## LEADERSHIP

### UF Quant Club — President (May 2024 - Present)

Gainesville, FL

- Conducted workshops and seminars on quantitative finance topics, including portfolio optimization, derivatives pricing, and econometric analysis, enriching the academic experience of 50+ club members.

### UF AI Club — Education Director (Aug. 2023 - May 2025)

Gainesville, FL

- Taught weekly lectures dedicated to enriching members' understanding of advanced topics ranging from simple deep neural networks (DNNs) to large language models (LLMs) and graph representation learning.