Nathan **Stefanik**

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Skills

Languages	Python, Java, C, SQL, Assembly, Rust
Tools	Tensorflow, Keras, PyTorch, Git, MySQL, NumPy, Pandas, Scikit-learn, Matplotlib

Education

Georgia Institute of Technology   *Atlanta, GA*

BS in Computer Science and BS in Mathematics, GPA: 3.6/4   *Expected Dec 2022*

- Specializing in Computer Intelligence and Information Internetworks
- **Courses**: Deep Learning, Probability Theory, Statistical Theory, Linear Algebra, Honors Algorithms, Honors Automata and Complexity, Algebraic Geometry, Algebraic Topology

Work Experience

GT School of Math   *Atlanta, GA*

Grader   *September 2021 - PRESENT*

- Graded homework and exams for MATH 3406 Linear Algebra II over 70 students
- Created answer keys for assignments

VIP in AI and Discovery - Finance Group   *Atlanta, GA*

Student Researcher   *January 2021 - PRESENT*

- Researched current portfolio management theory
- (Tensorflow/Keras) Built feed forward neural network to predict price movement on tech stocks with 59% accuracy
- Building VADER sentiment analysis model on relevant Tweets to aid in retail trading decisions (Work in progress)

Projects

Autoencoder for Finance

Personal   *June 2021 - July 2021*

- Built autoencoder using Tensorflow and Keras for dimensionality reduction on quantitative features of stocks
- Applied to FF network from VIP project

Research in Tropical Geometry/Combinatorics

Independent Study   *Jan 2021 - May 2021*

- Conducted literature review on intersection of tropical geometry and optimization problems
- Solved problems in combinatorics using tropical determinants and eigenvalues

Extracurricular Activities

GreyHat Cybersecurity Club

Member   *Jan 2021 - PRESENT*

- Attended weekly meetings on lectures in cybersecurity
- Participated in club CTF challenges