Hunter Gotwalt

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, Scheller College of Business **Atlanta, Georgia**
Master of Science in Quantitative and Computational Finance *August 2025-December 2026*
- Key Coursework: Numerical Methods in Finance, Investments, Time Series Analysis, AI for Finance, Computational Data Analysis, Design and Implementation of Systems in Computational Finance, Stochastic Process, Statistical Learning

FLORIDA STATE UNIVERSITY **Tallahassee, Florida**
Bachelor of Science in Applied Mathematics and Statistics *August 2022-May 2025*
- Minor: Computer Science
- GPA: 3.9
- Relative Coursework: Probability Theory, Statistical Inference, Machine Learning, Time Series Analysis, Data Structures and Algorithms, Linear Algebra, Game Theory, Applied Regression, Deep and Reinforcement Learning, Probabilistic Modeling

EXPERIENCE

Booz Allen Hamilton **Panama City, Florida**
Data Science/ Software Engineering Intern *June 2025- August 2025*
- Collaborated with a cross-functional team of engineers to support electronic warfare initiatives, focusing on the design, development, and integration of data science and software components.
- Developed data pipeline and ML Autoencoder model for real-time anomaly detection.
- Integrated satellite communication software into a real-time embedded system, ensuring seamless data flow and compatibility across distributed modules.
- Presented system architecture, implementation decisions, and performance outcomes to senior engineers, stakeholders, and executive leadership.

Florida State University **Tallahassee, Florida**
Research Assistant *August 2024–December 2024*
- Formulated predictive models using machine learning techniques to analyze high-dimensional NFL tracking data.
- Performed feature engineering to capture player movement patterns and play outcomes, improving model accuracy and interpretability.
- Gained experience leading meetings and managing project timelines in a collaborative research setting.

PERSONAL PROJECTS

Market Regime Modeling and Algorithmic Trading Agent
- Segmented financial market regimes using a Hidden Markov Model, improving risk forecasting by identifying regime-specific volatility patterns.
- Forecasted future SPY returns with Monte Carlo methods using regime stats and VIX-adjusted volatility.
- Engineered a GRU-based predictive model using data from historical returns, volatility signals, and simulated paths, to predict the S&P 500s next day return. Achieved MAE of 0.0102 and RMSE of 0.0140.
- Leveraged a Double Deep Q-Network trading agent that exceeded buy-and-hold benchmarks in backtesting.

Blackjack Strategy Agent
- Created a blackjack environment with support for advanced actions like double down and split.
- Trained a Monte Carlo RL agent to optimize decisions under probabilistic modeling constraints.
- Designed a Graphical User Interface that allows the user to play blackjack with real-time strategy suggestions from the agent.

SKILLS

Programming: Python, SQL, C/C++, R, SAS, JavaScript
Tools: TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, Git, Linux, Nodejs
Interests: Poker Strategy, Golf, Intramural Sports, Coaching Youth Football, Fantasy Football