

Lucas Faria

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EDUCATION

Sacred Heart University

Fairfield, CT

Expected May 2026

- School of Computer Science & Engineering
- B.S. Computer Science, May 2026
- **Relevant Coursework:** Programming Paradigms, Database Design, Data Structures, Applied Machine Learning, C programming.

SKILLS

Computing: Python, SQL, DAX, HTML/CSS, Git, GitHub, JavaScript, C, C++, TypeScript, Next.js, Flask.

AI & Data Science: LightGBM, Backtrader, Gemini 2.0 Flash, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn.

Tools: Tableau, Power Query, MongoDB, Figma, Google Colab

WORK EXPERIENCE

Milton CAT

Milford, MA

Data Science & Engineering Intern

May 2025 – Present

- **Dashboard Engineering & System Integration:** Redesigned and rebuilt merchandise ordering dashboard, integrating multiple data sources and improving system performance for end-user business operations.
- **Data Pipeline Architecture & Collaboration:** Partnered with data architects and engineers on data warehouse implementation and pipeline development, contributing to enterprise-level data infrastructure modernization initiatives

Full Circle Youth Empowerment

Bridgeport, CT

Data Science Intern

January 2025 – May 2025

- **Data Visualization & Communication:** Translated complex program data into clear, interactive dashboards using Tableau and Python (matplotlib, seaborn), enabling staff and state officials to filter by age, gender, and interest.
- **Data Cleaning & Analysis:** Leveraged Python (Pandas, NumPy) to clean and organize child participation data, identifying key traits and trends across hundreds of youth participants to support program evaluation and funding strategies.

Legendary Solutions Inc.

Westborough, MA

Business owner

January 2019 – December 2024

- **Successfully Scaled Operations:** Spearheaded the growth of a virtual machine (VM) sales business, increasing annual revenue from \$80,000 to \$300,000 within one year from an initial \$1,000 investment.
- **Leadership & Team Management:** Managed a team of 5+ employees, optimizing workflows and ensuring timely delivery of all VM orders, resulting in a highly organized and efficient order fulfillment process.
- **Technical Expertise in Virtual Machines:** Developed in-depth knowledge of virtual machine (VM) technologies and software use cases, optimizing VM configurations to meet diverse customer needs, and providing technical support to ensure seamless deployment and operation.

PUBLICATIONS & PROJECTS

SynTrade: A Hybrid Multi-Agent Trading System

Fairfield, CT

Co-Author

Accepted (Publication expected February 2026)

- **Multi-Agent Pipeline Development:** Developed a modular multi-agent pipeline in Python consisting of five specialized agents—Scraper, Discriminator, Scorer, Critic, and Executor.
- **LLM + ML Signal Calibration:** Integrated Gemini 2.0 Flash for qualitative sentiment extraction from financial news and LightGBM classifiers to calibrate signal probability scores.
- **Rule-Based Verification & Risk Control:** Engineered a rule-based Verifier Critic to detect signal contradictions (e.g., bullish sentiment vs. overbought RSI), reducing maximum drawdown to 1.34%.
- **Backtesting & Performance Results:** Achieved a 1.56 Sharpe Ratio through backtesting with Backtrader, demonstrating superior risk-adjusted performance over technical-only baselines.

Room Occupancy Prediction Using Environmental Sensors

Fairfield, CT

Research Project

April 2025

- **Sensor-Based Data Modeling:** Engineered machine learning models using environmental sensor data (CO₂, temperature, PIR motion, sound, light) to classify room occupancy; achieved over 99% accuracy using Random Forest, XGBoost, and Extra Trees.
- **Exploratory Data Analysis & Visualization:** Cleaned and analyzed a dataset with 10,000+ instances using Pandas and NumPy; generated heatmaps, violin plots, and box plots in Seaborn and Matplotlib to evaluate feature correlations with occupancy

LEADERSHIP & CAMPUS INVOLVEMENT

Delta Tau Delta Fraternity

Fairfield, CT

Finance Chairman

November 2024 – November 2025

- **Cash Flow Management:** Managed over \$150,000 in cash flow, ensuring timely payments, responsible spending, and sustained financial growth.
- **Budget Strategy & Execution:** Strategically developed and implemented budgets for all fraternity operations, optimizing financial performance and resource allocation.

Additional

- Bi-Lingual in Portuguese and English/Dual Citizenship in the United States and Brazil.
- **Interests:** Nutrition, Power Lifting, Running, Music, F1, Soccer, Sneaker Collecting