

Artin Seyrafi

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EDUCATION

University of Texas at Dallas

Bachelor of Arts in Computer Science

August 2023 – December 2026

GPA: 3.52

PROJECTS

Berry: Agentic Trading Assistant | *LangChain/Graph, Gemini/OpenAI API* August 2025 – December 2025

- Won 1st Place at a semester-long FinTech Project Showcase by designing and implementing an **agentic AI trading system** that emulates the research and execution workflow that occurs in real trading firms.
- Issued sell signals ahead of market declines, **avoiding a 10.96% drawdown** while achieving a **31.71% cumulative return** on Apple (AAPL) in 2025, compared to a **14.12% buy-and-hold return**.
- Developed a **Python + Flask backend** exposing REST endpoints for trade analysis, portfolio generation, market movers, and news aggregation, consumed by a **React + TypeScript frontend**.
- Leveraged **LangGraph state management** to coordinate **multi-LLM agents** (OpenAI and Gemini) with specialized roles, enabling shared market, sentiment, and risk context across research-driven debate rounds.

NovaRoute: CapitalOne Service Routing | *FastAPI, Gemini API, IsolationForest, pandas* November 2025

- Led the development of an **AI-driven customer assistant** for **CapitalOne** that prioritizes support routing based on real-time **fraud risk analysis** and user intent to reduce response times for critical financial cases significantly.
- Developed a **FastAPI backend** integrated with **Gemini AI** for natural language understanding and message prioritization using structured fraud data context, correctly prioritizing **92.32%** potential generated fraud cases.
- Trained an **unsupervised IsolationForest model** in Google Colab to detect anomalous transactions, generating live fraud scores used in dynamic priority classification which **reduced** high priority misclassifications by **50%**.
- Designed an interactive **Streamlit dashboard** displaying account details, transaction history, fraud analytics, and live chat interactions for multiple mock users with fraud simulation functionality.

Sanctum: Secure File Vault | *Python, Cryptography, Argon2, pyotp, pytest* August 2025 – October 2025

- Developed a **secure file vault software** leveraging **AES-256-GCM encryption** for authenticated encryption, ensuring both data confidentiality and integrity across all stored files.
- Implemented **Argon2id password hashing** and **PBKDF2-HMAC-SHA256 key derivation** to enhance password security, mitigate brute-force attacks, and provide robust key generation for file protection.
- Integrated **TOTP-based Multi-Factor Authentication (MFA)** with QR code provisioning using **pyotp** and **qrcode** libraries.

Optimizing Banking Campaigns | *Python, Scikit-learn, Pandas, Gradient Boosting* January 2024 – March 2024

- Developed a **machine learning model** to predict customer subscription to a term deposit product for a Portuguese Banking institution, employing **gradient boosting** and ensemble methods with **91.56% accuracy**.
- Built and evaluated **Logistic Regression, Random Forest, and Gradient Boosting** models to improve classification accuracy on imbalanced data.
- Utilized **Pandas, NumPy, Scikit-learn, and Matplotlib** for data handling, feature engineering, and visuals.

EXPERIENCE

Lead Code Instructor | Project Developer

May 2022 - August 2024

Houston, TX

Code Ninjas

- Led and managed multiple summer camps and after school sessions teaching **100+ students** in different areas of programming, resulting in a **98% satisfaction** rate amongst parents.
- Instructed programming languages, including Roblox Lua, **JavaScript**, and **Python**, fostering a comprehensive understanding of coding principles and software design among students.
- Designed and led **5+** engaging summer camps, such as Roblox Studio Development and Lego Robotics, providing hands-on learning experiences that contributed to students' skill development and enthusiasm for coding.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React.js, Node.js, Flask, FastAPI, LangChain

Developer Tools: Git, GitHub, VS Code, Visual Studio

Libraries: pandas, NumPy, Matplotlib, pyotp, qrcode