

ANASTASIA GALKOVA

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EDUCATION

Lake Forest College, Lake Forest, IL

Expected: December 2026

Bachelor of Arts in Computer Science and Economics

GPA: 4.00

Honors: Phi Beta Kappa; Dean's List; Presidential Scholarship; Plansoen Family Scholarship

TECHNICAL SKILLS

Programming & CS: Java, Python, SQL, Bash; Object-Oriented Programming, data structures, algorithms

Backend & Data: Flask, SQLAlchemy, REST APIs, scalable service design; relational databases (PostgreSQL, SQL Server, MySQL), ChromaDB; ETL, data pipelines

Tools & AI: Git/version control, Docker, Linux, pytest, automated testing; cloud-hosted LLM APIs, RAG, embeddings

Languages: English (fluent), Russian (native)

EXPERIENCE

SQL Data Analyst Intern

August – December 2025

Oscillas Technologies | Chicago, IL

- Designed and maintained back-end SQL reporting pipelines across PostgreSQL and SQL Server relational databases for high-frequency sensor, equipment-downtime, and reliability data.
- Built and tested ETL and reconciliation logic across 1- to 24-hour reporting intervals, standardizing calculations and improving the reliability and maintainability of downstream datasets.
- Proposed a reporting optimization projected to save \$9,000 annually and presented its technical and business impact to stakeholders.

SOFTWARE ENGINEERING PROJECTS

CodePath — Applications of AI Engineering (AI201)

June – August 2026

10-week, instructor-led applied AI engineering program | Remote

- Built a Python RAG service with ChromaDB, MiniLM, and the cloud-hosted Groq API, implementing semantic retrieval, source attribution, and safe handling of unsupported queries.
- Designed, developed, and tested a maintainable Flask REST API with LLM classification, confidence scoring, rate limiting, audit logging, and verification endpoints.
- Contributed to the open-source PathReview codebase through Git-based version control and code review; added deterministic pytest snapshot tests for versioned prompt templates and validated 42 passing tests.

Quantitative Data Research Scholar — Speculative Market Episode Detection & Early Warning

May – July 2025

James Rocco Quantitative Data Research Program | Lake Forest, IL

- Designed an end-to-end Python pipeline and scalable data-processing algorithms to analyze 846,980 daily observations from 486 S&P 500 stocks spanning 2012–2022.
- Implemented rolling-window algorithms for price, volatility, volume, and drawdown signals; engineered per-stock momentum, trend, and volatility features for early-warning classification.
- Compared Logistic Regression, Random Forest, and Gradient Boosting models using a chronological train-test split; the best reduced-feature model achieved 0.79 event recall and 0.78 early-warning recall.

AI4ALL Ignite Accelerator — Federal Funds Rate Forecasting

May – August 2025

Project-based AI/ML accelerator | Remote

- Built a reproducible Python time-series pipeline for one-month-ahead Effective Federal Funds Rate forecasting, engineering lagged, rolling, and rate-change features with strict chronological information cutoffs.
- Evaluated persistence, Ridge, and Random Forest models using expanding-window cross-validation and an untouched 2017–2026 external period; Ridge reduced external-period RMSE by 16% relative to persistence.

LEADERSHIP

President, Girls Who Code Chapter

December 2024 – May 2026

Lake Forest College | Lake Forest, IL

- Led chapter programming, technical workshops, and campus outreach; mentored high school students in Python and AI through the Girls Who Code Mentoring Corps.