

Uy (Herry) Vo

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EDUCATION

Knox College

Bachelor of Science in Mathematics and Computer Science

Galesburg, IL

Expected Jun 2029

Honors: Dean's List (2025-2026), Knox Trustees Scholar, Land of Lincoln Award | GPA: 4.0/4.0

Relevant Coursework: Data Structures and Algorithms, Applied Data Structures, Financial Mathematics, Calculus II, Data Mining and Statistical Computing, Mathematical Statistics, CodePath TIP 102 and AI 110

EXPERIENCE

CodePath

Applied AI Engineer Fellow

Remote

Jun 2026 - Present

- Evaluate machine learning models by comparing prediction performance, analyzing error metrics, and identifying data-driven limitations
- Design AI workflows using APIs, retrieval, and RAG concepts to process data and develop reliable AI-powered applications

Knox College

Digital Learning Student Assistant

Galesburg, Illinois

Jun 2026 - Present

- Authored 8 user guides and FAQ articles for the Brightspace LMS knowledge base used by ~1,000 students, helping reduce recurring support requests
- Conducted 2 usability sessions with students, identified 5 recurring pain points in the onboarding flow, and proposed redesign recommendations adopted by the team

MathExpress Center

Academic Assistant

Hanoi, Vietnam

May 2025 - Aug 2025

- Managed student attendance and academic records using PivotTables and VLOOKUP functions, supporting lesson planning and maintaining 95%+ class attendance
- Generated monthly performance reports for 50+ parents by analyzing attendance and assessment data, enabling instructors to tailor lesson plans based on student progress

PROJECTS

Dickson Polynomials and Self-Reciprocal Polynomials

Sep 2025 - Present

- Develop a Python pipeline (SymPy, NumPy) to construct Dickson polynomials of the $(k+1)$ -th kind over the integers and finite fields $\text{GF}(p)$, automating symbolic factorization, root computation, and irreducibility testing across parameterized (k, p) values
- Conduct computational experiments to verify conjectures on polynomial factorization and symmetry, documenting results in LaTeX and presenting findings at the Rose-Hulman Undergraduate Mathematics Conference (2026)

S&P 500 Sector Portfolio Analytics Platform

Mar 2026 - May 2026

- Collected and cleaned 10 years of daily price data for 11 S&P 500 sector ETFs using the yfinance API, computed daily returns and covariance matrices, and prepared datasets for portfolio analysis
- Applied Markowitz mean-variance optimization with PyPortfolioOpt to construct minimum-variance and maximum-Sharpe portfolios, comparing performance against an equal-weight benchmark through visualization and quantitative analysis

EXTRACURRICULAR ACTIVITIES

Quantitative Investment Society

Executive Member

Galesburg, IL

Jan 2026 - Present

- Lead weekly workshops (20-25 attendees) on probability theory, regression analysis, and financial modeling
- Analyze S&P 500 market data (1,200+ trading days) using Excel and perform exploratory data analysis on datasets containing 10,000 to 50,000 observations, applying hypothesis testing and feature engineering

SKILLS

Programming: Python (Pandas, NumPy, SymPy), Java, R

Data & Tools: Excel (PivotTables, VLOOKUP, Regression Analysis), PyPortfolioOpt, Matplotlib, Git, LaTeX