

Eva (Yishu) Cao

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EDUCATION

Carnegie Mellon University

Master of Information Systems Management - Business Intelligence and Data Analytics

Pittsburgh, PA

Aug 2025 – Dec 2026

Coursework: Object-Oriented Programming in Java, Data Focused Python, Applied Econometrics, Database Management

Carleton College

Bachelor of Arts in Statistics and Computer Science

Northfield, MN

Sep 2021 – Jun 2025

Coursework: Regression Analysis, Statistical Inference, Software Development, Algorithms, Data Visualization GPA: 3.7/4.0

SKILLS

- **Visualization Toolkits:** Matplotlib, Seaborn, Power BI, Microsoft Suite, G Suite
- **Programming Languages:** Python, R, SQL, Java, JavaScript, CSS, HTML, C

PROFESSIONAL EXPERIENCE

DKT International

Knowledge Management and Data Analytics Intern

Washington DC, US

Dec 2024 – Jun 2025

- Analyzed 10k historical sales records to identify trends and high-potential countries for fundraising; visualized with Power BI dashboards and presented to executives to influence next year's budget realignment
- Developed a client-oriented analytics dashboard that supported strategic partner negotiations and enhanced visibility during project bidding processes
- Established a scalable data foundation by structuring internal datasets, establishing database connections, and automating cleaning workflows in SQL, reducing manual cleaning effort by 50%

Century Securities Co., Ltd

Fixed Income & Risk Management Intern

Shenzhen, CN

Aug 2024 – Oct 2024

- Aggregated 1M+ stock data from multiple sources, such as internal trading systems and third-party vendors, with Excel VBA and Python; established data quality checks to improve data integrity for downstream model development
- Developed Monte Carlo simulations to model stock price uncertainty and tail-end risks, providing leadership with insights for risk mitigation strategies
- Implemented a Python-based Value at Risk (VaR) model to assess equity portfolios, performing individual stock and portfolio-wide VaR calculations to ensure compliance with company risk limits
- Conducted stress testing in Excel to evaluate market, credit, and liquidity risks, assessing the company's risk-bearing capacity and aiding in the development of strategic risk mitigation measures

Western Securities Co., Ltd

Market Data Analyst Intern

Xi'an, CN

Jul 2024 – Aug 2024

- Forecasted market trends and sector performance by applying linear regression and random forest models to over 500k+ A-share market data on semiconductors and real estate industries
- Delivered customized market trends and investment opportunity insights to clients via Power BI dashboards; engaged further collaboration interest from 4 clients

TECHNOLOGY-RELEVANT PROJECTS

Analyzing Amazon Movie Reviews via Network Statistics | Carleton College

Northfield, MN

Collaborative Research Project

Jan 2025 – Jun 2025

- Constructed a bipartite network of 250K+ movies and 889K Amazon users; applied ERGMs (Exponential-family Random Graph Model) to uncover co-review patterns, revealing that similarity in price, sentiment, and rating drives shared audience behavior
- Implemented a data pipeline in Python and R to convert unstructured Amazon review data into a cleaned, CSV-formatted dataset; optimized model performance by incorporating external data and capturing extra latent patterns
- Synthesized network modeling, sentiment analysis, and community detection into an analytical framework with applications in recommender systems, user behavior modeling, and market segmentation

StreamSearch Movie & Show Digital Resource & Web Platform Development | Carleton College

Northfield, MN

Project Leader

Mar 2025 – Jun 2025

- Led full-stack development of a modular, well-tested Python CLI and Flask web application; achieved 90%+ unit test coverage to ensure reliability and maintainability
- Replaced fragmented 15MB+ CSV data from Netflix, Hulu, and Disney+ with a PostgreSQL backend using psycopg2
- Elevated user experience with a responsive front end featuring accessible HTML/CSS design, autocomplete search, and data visualizations tailored for technical and non-technical users

Makerspace Digital Resource & Web Platform Development | Carleton College

Northfield, MN

Project Leader

Sep 2024 – Feb 2025

- Modernized a MediaWiki-based platform with HTML, CSS, JavaScript, and PHP, increasing daily active users by 150%; collaborated with UX designers to align changes with user feedback and accessibility needs
- Designed and analyzed 150+ user surveys and interviews via affinity diagrams to uncover challenges in website accessibility, information availability, and engagement; informing new engineering solutions
- Collaborated with other engineers to implement a scalable data extraction pipeline using MediaWiki APIs and SQL