

Elizabeth (Liz) Liu

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EDUCATION

Columbia University

Bachelor of Science in Decision Science & Data Analytics, Minor in Artificial Intelligence

New York, NY

Aug. 2025 – May 2029

- GPA: 3.7983/4.00
- Relevant Coursework: Data Structures and Algorithms, Multivariable Calculus, Data Engineering, Probability
- Activities: Society of Women Engineers (SWE), Jumpstarting Aspiring Developers and Entrepreneurs (JADE), Institute for Operations Research and the Management Sciences (CUINFORMS), Columbia Poker Club

EXPERIENCE

Head Intern and Economic Research Analyst Intern

Jun. 2023 – Aug. 2025

City of Beachwood Economic Development Department

Beachwood, OH

- Entered as the most senior intern, and over the following years, mentored and supervised the onboarding of additional team members, leading a team of 12 interns
- Led research and planning for a biomedical innovation ecosystem that directly supported growth of industry clusters, generating 100+ jobs, \$320K+ in City tax benefits, and \$5M in capital investment over 3 years
- Laid the foundation for the Beachwood Community Improvement Corporation's innovation committee, which has now funded \$60K in forgivable loans for 3 R&D companies and launched a \$1M revolving loan program

Marketing Intern

Feb. 2023 – Jan. 2025

JNForensics, LLC

Tampa, FL (Remote)

- Produced marketing content featured by Joe Navarro on Twitter , LinkedIn , Facebook  (73.1K+ followers)
- Enhanced understanding of nonverbal communication, branding, and audience psychology through mentorship from Joe Navarro (CEO, JNForensics; former FBI Special Agent) and Anne-Maartje Oud (CEO, Behaviour Company)

AI and Machine Learning Intern

May 2024 – Aug. 2024

Case Western Reserve University School of Engineering

Cleveland, OH

- Applied linear algebra to build 2D/3D probabilistic models for data prediction
- Developed Python models on synthetic data (cross-entropy loss, logistic regression, Gaussian processes, Bayesian optimization, Metropolis sampling) to model uncertainty and evaluate its impact on predictive decision-making

Cambridge Future Scholar Programme

Jun. 2023 – Aug. 2023

Cambridge Centre for International Research | Paper 

Cambridge, UK (remote)

- Applied the Fearon Bargaining Model to a game-theory-based research paper on post-Wars of the Roses England
- Analyzed commitment problems, signaling, and equilibrium failures to understand civil conflict and state consolidation; worked with Dr. Stephen Chaudoin (Harvard) and Dr. Michael-David Mangini (Yale)

LEADERSHIP & ACTIVITIES

Columbia Society of Women Engineers | EEE Organizational Committee Member

Sep. 2025 – Present

- Coordinate events and initiatives for a 500+ member student organization supporting women in STEM
- Developing the 2026 SWE Engineering Exploration Experience (EEE) event, hosting 200+ high school students at Columbia University as part of a 6-member team

Hope Heroes Ohio | VP of Finance

Aug. 2024 – Jul. 2025

- Created financial strategy within a 41-member team, coordinating fundraising that generated \$238K+ in corporate sponsorships for children's hospitals in NE Ohio, surpassing Junior Achievement global fundraising record by \$40K
- Individually secured \$5.5K in sponsorships; managed finances and pitch strategy for record-breaking initiative

The Introspect | Website | Editor in Chief and Founder

Mar. 2023 – Jun. 2025

- Founded and led a global online magazine with 50+ contributors across 14 US States and 8 countries; organized collaborative multimedia initiatives focusing on topics ranging from interconnectivity to nationalism

SKILLS, HONORS & INTERESTS

Languages: Python (Proficient), Java (Proficient), C++ (Intermediate), SQL (Intermediate), Stata (Intermediate)

Libraries & Tools: NumPy, Matplotlib, pandas, Microsoft Office, Google Workspace

Interests: sculptural ceramics, fitness boxing and sparring, horror movies, making noodles