Bradley Altman

BradAltman2024@u.northwestern.edu | (847) 777-9346 | www.linkedin.com/in/bradley-altman

EDUCATION

Northwestern University | Masters Combined Degree Program | Evanston, IL — Anticipated December 2025

- M.S. in ***Materials Science & Engineering****; Biomaterials Thesis Track* — Cumulative GPA: **3.5/4.0**
- B.A. in ***Chemistry*****,** Minors in ***Financial Economics & Data Science***

Relevant Coursework: Python, Java, Data Science: Machine Learning, Data Visualization, Probability, Statistical Mechanics, Linear Algebra, Multivariable Calculus, Derivatives, Investments, Corporate Finance, & Microeconomics

WORK EXPERIENCE

CORE Industrial Partners | Chicago, IL — March 2024 — June 2024

Private Equity Spring Analyst

- Conducted leveraged buyout analysis and performed investment diligence and information gathering efforts to identify key risks presented in CIM, address underwriting questions, and refine core investment theses
- Performed market research and due diligence, analyzed macro drivers in the middle market manufacturing sector to aide in the identification of potential acquisition targets, and created presentations communicating findings

Cherish Health | Boston, MA — June 2023 — September 2023

Business Management Summer Analyst

- Constructed a comprehensive financial model from the ground up to serve as a template for projecting 5-year pro-forma figures based on purchase agreements in place, incorporating sensitivity analysis to account for deviance
- Pitched and conducted a preliminary bottom-up DCF valuation of a start-up valued at $100 million by performing a comparable company analysis utilizing EV/FCF, PEG, EV/No. Customers, and other industry-specific multiples
- Operated under CFO, presented model and projections to C-Suite for implementation in pitch deck presentations

RESEARCH

Northwestern, Mechanical Engineering Department | Evanston, IL — May 2024 — Present

Graduate Computational Research Assistant

- Implementing uncertainty quantification methodologies, including Monte Carlo simulation, Gaussian processes, and deep evidential regression, on deep learning models predicting protein B-factors to minimize aleatoric and epistemic uncertainty in Python utilizing PyTorch, TensorFlow, Scikit-learn, and scientific writing

U.S. Department of Energy at Argonne National Laboratory | Lemont, IL — July 2021 — December 2023

Undergraduate Technical Research Aide

- First-Authored a paper published in the Proceedings of the 2023 PATRAM Symposium, sponsored by the International Atomic Energy Agency, on the Geofence Zone Formation Tool for Radioactive Material Shipment
- Developed a standard for the creation of Geofence models for tracking and monitoring of international nuclear material as part of the TRAVELER project in the Nuclear Technology and National Security (NTNS) Division
- Analyzed over 200,000 lines of accelerometer sensor datasets through a comprehensive cleaning, plotting, assessing, and validating process using 1000+ lines of Python (Pandas), 500+ lines of Java, and Excel for verification of accelerometer and overall sensor bank performance against published TTCI data analysis report

STUDENT ACTIVITIES

Northwestern Delta Sigma Pi Business Fraternity, *VP of Finance* | Evanston, IL — March 2023 — April 2024

- Managed receipts and expenditures in a standardized accounting system with a CPA; developed and maintained chapter budgets, monitoring revenue and expenses resulting in a surplus
- Oversaw 4, 100+ student social events and organized a guest speaking event with a Senior M.D. at Accenture

Northwestern Lumi Tutoring, *Tutor* | Evanston, IL — October 2021 — June 2023

- Provided personalized SAT test prep to Covid-impacted, underserved, ESL Chicago Public School students, achieving an average 187-point score increase through collaboration and tailored weekly lesson plans

Northwestern Algorithmic Trading Club, *Member* | Evanston, IL — September 2021 — June 2022

- Analyzed and contributed to 2 unique equity trading algorithms utilizing techniques like mean reversion and pairs trading, implementing solutions leveraging historical data and divergence detection using Python

ADDITIONAL

Computer Technical Skills: Python, Java, R, HTML & CSS, QGIS, Excel, Powerpoint, Word
Technologies/Frameworks: Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, PyTorch, TensorFlow
Interests: Tutoring, Marathon Running, Chicago Bulls, Astrophysics, Hedged Arbitrage Betting, New Cuisines