

Thomas Kusak

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EDUCATION

University of Notre Dame

Bachelor of Science in Computer Science
Minor in Engineering Corporate Practice

Notre Dame, IN
GPA: 3.90/4.00
Expected Graduation: May 2025

Dublin City University

Study Abroad Semester

Dublin, Ireland
January 2024 – May 2024

WORK EXPERIENCE

Northern Trust

Incoming Front Office Analytics Technology Intern

Chicago, IL
Summer 2024

- Will be using Python to create dashboards which supplement Northern Trust's leading asset servicing solutions

Milliman

Software Developer Intern

Chicago, IL
May 2023 – August 2023

- Developed a robust, production-level console application in C# capable of efficiently converting millions of pieces of trade data between two customizable schemas per second, streamlining critical business operations
- Revamped a daily-used task service to leverage cache-based techniques with PubSub channel communication, resulting in a significant improvement in performance and responsiveness while reducing SQL database dependencies

LEADERSHIP AND PROJECTS

Notre Dame Investment Club

Stock Pitch – Intercontinental Exchange (NYSE:ICE)

November 2023

- Selected and pitched Intercontinental Exchange to Notre Dame's Investment Club at a \$108.66 share price, with a projected 5-year price target of \$139.58 (28.42% upside), supported by DCF, WACC calculations and investment thesis
- Club voted BUY (~1/4 likelihood), resulting in a ~\$100,000 investment that returned 17.0% within one semester

Machine Learning NFL Spread Analysis

Intro to Artificial Intelligence Semester Project

September 2023 – December 2023

- Spent a semester writing a program in Python which utilizes scikit-learn, pandas libraries to train models which attempt to accurately predict which NFL team will cover the spread in a given matchup
- Used supervised classification to train logistic regression, linear discriminant analysis, decision tree classifier, and other models on real-life NFL odds and outcomes

Student International Business Council

Leader – McKinsey & Company Project

Notre Dame, IN
September 2023 – December 2023

- Selected from a pool of ~20 candidates to lead a team of 12 analysts to produce a recommendation on how to re-engineer a toaster to increase profits
- Disassembling industry toasters to analyze and determine critical design practices
- Working directly with product development analysts at McKinsey & Company's Chicago practice

Leader – Deloitte Project

January 2023 – May 2023

- Selected from a pool of ~30 candidates to lead a team of 7 analysts to develop a network segmentation solution for a client
- Estimated financials and implementation timelines for the segmentation solution and marketing response plan
- Worked directly with strategy and risk analysts at Deloitte's Chicago practice

Analyst – Deloitte Project

September 2022 – November 2022

- Worked with team to develop a mobile application framework for a client in the online travel industry
- Supported recommendation through industry analysis, consumer sentiment, and financial projections

SKILLS & INVOLVEMENT

Involvement: Baseball Analytics club, CS4Good, Quant Club, Consulting Competition, Intramural Sports

Testing: ACT Composite: 36 | SAT Math: 800

Skills: Python, C, C#, Java, Linux, Git, SQL, Django, HTML, CSS, Excel, and PowerPoint

Service: Raised \$2,352 for The St. Baldrick's Foundation through a head-shaving event run by my dorm

Interests include poker, basketball, chess, fantasy football, Malcolm Gladwell books, movies, and golf