# COLTON (CJ) SPENCE

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## EDUCATION

**Columbia University**                                                                          **New York, NY**
*M.S. in Financial Engineering*                                                              Sep 2024 – Dec 2025
- *Coursework*: Stochastic Models, Optimization Models and Methods, Asset Pricing, Applications Programming (Python)

**University of North Carolina at Chapel Hill**                                      **Chapel Hill, NC**
*B.S. in Mathematics (3.5/4 GPA)*                                                                Aug 2022
- *Relevant Coursework*: Ordinary Differential Equations, Real Analysis, Probability Theory, Optimization with Applications in Machine Learning, Mathematical Methods, Data Science

## PROFESSIONAL EXPERIENCE

**S&P Global – Market Intelligence**                                                       **Raleigh, NC**
Product Specialist                                                                            Dec 2023 – Jun 2024
- Took on more clients increasing account coverage by 20% in annual revenue
- Trained and mentored two newly hired team members on Trading Analytics' proprietary systems and client service procedures
- Established monthly newsletter to improve team visibility to upper management
- Conducted interviews with prospective team members and provided feedback to hiring managers

Associate Product Specialist                                                               Jul 2022 – Dec 2023
- Maintained client relationships for S&P Global Trading Analytics products
- Engaged with hedge funds, investment banks, and broker-dealers to create tailored T+1 Transaction Cost Analysis reports across various asset classes
- Contributed in creating and validating recurring client SEC 605 and SEC 606 compliance reports
- Analyzed client data to ensure validity and consulted with internal teams to resolve data processing issues
- Met regularly with clients to assess service quality and discuss product developments and enhancements
- Listened in on FIF calls to stay updated on and contribute to new FINRA regulations
- Managed portfolio of client accounts worth $600k in annual revenue

## PROJECT EXPERIENCE

**Exact Option Pricing using Black Scholes Model (C++)**                           Mar 2024
- Developed object-oriented framework to compute exact prices for Perpetual American and European options using Black Scholes model
- Added functionality to calculate exact delta and gammas for European options and approximations for American options
- Implemented ability to output option prices and greeks in excel for incrementing strike prices, interest rates, underlying prices and volatilities
- Integrated error management class to throw objects when applicable
- Utilized statistical packages in boost library

## SKILLS & CERTIFICATIONS

Certifications: C++ Programming for Financial Engineering (Certificate)
Technical Skills: C++, Python, R
Finance: Market Structure, Derivative Pricing, Transaction Cost Analysis