

Samuel Goidel

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EDUCATION

The University of Chicago

Chicago, IL

B.S. Statistics, B.A. Physics, Computer Science Minor

Expected June 2025

- Cumulative GPA: 3.5/4.0
- Honors and Awards: 8th place out of over 2000 teams in Bloomberg's Global Trading Challenge, generating 21.2% absolute return; Third Prize at 2022 Midwest College Chinese Speech Contest
- Statistics Courses: Markov Chains, Martingales, and Brownian Motion, Statistical Theory and Methods I-II, Nonparametric Inference, Numerical Linear Algebra
- Physics Courses: Quantum Mechanics I-II, Intermediate Mechanics, Quantum Information Theory, Experimental Physics
- Computer Science Courses: Fundamentals of Deep Learning, Theory of Algorithms, Introduction to Machine Learning

Newark Academy

Livingston, NJ

Diploma of Graduation

September 2017-June 2021

- Cumulative GPA: 3.91/4.00, SAT: 1540/1600, Mathematics Level II Subject Test: 800/800, IB Diploma Certificate
- Varsity Tennis Captain: Led team to 3 NJSIAA State Tennis Championships; Personally ranked as high as #2 in state

PROFESSIONAL EXPERIENCE

Wells Fargo Securities

Charlotte, NC

Corporate Risk Summer Analyst

June 2024-Present

- Developed and implemented Counterparty Credit Risk (CCR) models to assess the potential future exposure (PFE) of derivative portfolios, ensuring compliance with regulatory requirements such as Basel III.
- Performed PFE analytics by utilizing advanced quantitative methods such as Monte Carlo simulations and stochastic modeling
- Executed simulations of market risk factors (e.g., interest rates, foreign exchange rates, commodity prices) using software such as MATLAB, Python (with libraries like NumPy and pandas), and Excel VBA, providing robust scenario analysis and stress testing.

Highsnobiety

Remote

Junior Software Engineer

June 2022-September 2022

- Helped rewrite data-collection pipeline as a parallel system in Python and C++ saving 80% execution time on retail data aggregation.
- Improved upon web scraping and data parsing infrastructure for improved performance in data collection from retail partners.
- Built content management tools in NodeJS, React, and AWS

RESEARCH EXPERIENCE

University of Chicago Booth School of Business

Chicago, IL

Research Assistant under Professor Dacheng Xiu

February 2023-September 2023

- Performed research predicting future volatility of stock prices for different timescales and worked with Jupyter Notebook and NumPy for data visualizations and computations.
- Extracted contextualized representations of news text to predict returns using LLMs in natural language processing.

University of Chicago Pritzker School of Molecular Engineering

Chicago, IL

Research Assistant under Professor Hannes Bernien

December 2021-January 2022

- Used AutoCAD and MATLAB to build a cost-effective, plug-and-play digital controller to stabilize laser power.
- Worked with team to construct vacuum chambers used in particle trapping experiments and laser spectroscopy.
- Presented progress and findings to groups of 15+ scientists across lab teams in biweekly technical briefings.

LEADERSHIP AND ACTIVITIES

University of Chicago NCAA Men's Tennis Team

Chicago, IL

Student-Athlete

December 2021-Present

- Played a key role on the #1 nationally ranked men's tennis team and devote 10-15 hours a week to travel, practices and matches.
- Helped my team capture the Division 3 NCAA National Championship in 2022 and 2024.

MoneyThink

Chicago, IL

Mentor

April 2022-December 2023

- Taught financial literacy, entrepreneurship, and other skills to high school students in local community to promote college readiness.
- Coordinated events for the club to devise curriculum, onboard new members, increase member engagement, and grow the club.

SKILLS

Programming Languages: Python, C, C++, JavaScript (TS, Node, Express, React), Java, Haskell, x86 Assembly

Personal Interests: Tennis, Baseball, Mandarin (speaking and writing), Pokémon, Weightlifting, Traveling