

Alexander M. Brooks

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github.com/DPY88/Portfolio

EDUCATION

University of California San Diego, John Muir College
Jacobs School of Engineering, Electrical and Computer Engineering Department
Bachelor of Science, Engineering Physics
Anticipated Graduation: June 2026 • GPA: 3.7 • Provost Honors 6/6 Quarters

SKILLS

Programming: Python, Julia, C++, Pine Script
Trading Platforms: NinjaTrader, MT4, Binance.US, TradingView
Quantitative Analysis: Game Theory, Statistical Modeling, Machine Learning

EXPERIENCE

Quantitative Trading Project **Mar 2024 - Present**
Topstep *Remote*

- Developed mean reversion and arbitrage trading strategies using Julia.
- Applied machine learning techniques via BlackBoxOptim to allow multi-threaded optimization of strategy parameters.
- Achieved Sharpe Ratios of greater than 1.5 across multiple strategies.
- Implemented strategies in C++ on NinjaTrader for live trading on a Topstep Funded account.

Topstep Funded Trader **May 2024 - Present**
Topstep *Remote*

- Passed Topstep evaluation phase for the \$50,000 funded account, generating 6% returns while maintaining a drawdown above 4%.
- Adapted trading strategies in real-time to account for market volatility and to balance risk and reward.

Compliance Summer Intern **Jun 2023- Sep 2023**
Franklin Templeton *New York, New York*

- Reviewed over 300 AML-KYC alerts to ensure compliance with regulatory standards.
- Facilitated discussions with software vendors to integrate AI solutions.
- Participated in KYC software testing, identifying and documenting potential issues.

Personal Trading Experience **Mar 2020- Present**

- Executed over 100 trades on MT4 and Binance.US, focusing on systematic short-term BTCUSD trading.
- Utilized TradingView for market analysis, and back-testing.
- Developed and implemented custom trading strategies using Pine Script and Python, leading to an average annual return of 20% over two years.

CERTIFICATES

Topstep Funded Trader, Topstep – Issued May 2024
Scientific Computing with Python, freeCodeCamp – Issued January 2023

ACTIVITIES

- Ranked in the top 0.1 percentile of online chess players – Chess.com
The Investors Club at UCSD - Presenter Tritonthenix, UCSD Calisthenics Club
Triton Barbell UCSD Chess Club