

Jacob Kulik

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Education

Northeastern University, Khoury College of Computer Sciences, Boston, MA Sep 2021 – May 2025
Bachelor of Science in Data Science and Business Administration, Concentration in Finance GPA: 3.99/4.00
Relevant Coursework: Machine Learning 1 & 2, Advanced Programming with Data, Portfolio Management, Database Design, Financial Econometrics, Foundations of Data Science, Financial Data Analytics, Copenhagen Business School - Investments

Work Experience

Lord, Abnett & Co., Incoming Investment Risk Associate, Jersey City, NJ Jun 2025 – Present

Arrowstreet Capital, Portfolio Management Co-op, Boston, MA Jul 2024 – Dec 2024

- Constructed fee schedule model with K-means clustering to classify broker tiers and explain routing behavior using Sklearn
- Implemented portfolio monitoring tool to track idiosyncratic risk contributors via Dask and SciPy for external-facing PMs
- Estimated stock loan fees using prime broker rate data to evaluate portfolio shorting costs with PySpark and Statsmodels
- Developed regression model to estimate trading fees using liquidity tags, achieving 96% R-squared with PySpark MLlib
- Optimized minimum portfolio cash levels by performing OLS regressions to predict overdraft probabilities using Statsmodels

Credit Suisse, HOLT Portfolio & Quantitative Strategy Co-op, New York, NY Jul 2023 – Dec 2023

- Launched portfolio analysis tool leveraging HOLT factor library to improve client prep workflow using Plotly Dash and SQL
- Engineered interactive dashboards to analyze HOLT and traditional quality alpha factors across stock baskets with Dash
- Enhanced ML model, achieving 91% accuracy in classifying management incentive plans across sectors with Sklearn
- Deployed chatbot to answer HOLT framework questions by conducting transfer learning on BERT model with HuggingFace
- Analyzed 25+ equity portfolios for institutional PMs, applying factor framework to construct opportunity and risk screens

Khoury College of Computer Sciences, Data Science Teaching Assistant, Boston, MA Dec 2021 – Apr 2025

- Facilitated discussion through weekly office hours and Piazza threads for 500 students in DS2000: Programming with Data
- Instructed 50 students in 2 CS practicum sections, grading and providing individualized feedback on homework and projects
- Collaborated with professors to develop visualization projects and quizzes covering introductory programming concepts

Chess.com, Partner Twitch Streamer, Remote Nov 2020 – Oct 2023

- Developed educational channel focusing on Blitz and Bullet chess with over 4k followers, 900k total views across platforms
- Produced video content, consistently ranked in the top 50 English chess channels on Twitch for viewership and growth
- Hosted Chess.com/tv programs for thousands of viewers, creating video content that was promoted on Chess.com site

Leadership Experience

TAMID Group - Tech Consulting, Director of Tech Consulting, Lead Developer, Boston, MA Sep 2022 – Dec 2024

- Drove team of 3 developers in the construction of codebase for Alia, a startup replacing traditional e-commerce pop-ups
- Enhanced AI-generated lesson pop-ups using TypeScript and GPT-3.5 to improve conversion rate with customer education
- Presented CEO with innovative prompt engineering and lesson creation code to enhance the Shopify merchant experience

Disrupt - The FinTech Initiative, Vice President, Boston, MA Dec 2021 – May 2023

- Led executive board of 22 students to execute 20+ speaker events and develop financial literacy mobile application
- Designed and taught 3-part Python workshop series covering Pandas library and Yahoo! Finance API for 200+ total students
- Restructured curriculum for 8-week FinTech venture-building program to funnel directly into venture accelerator IDEA

Projects

FinViz - Balance Sheet Visualizer Jan 2023 – Apr 2023

- Engineered interactive tool visualizing 10-K line item trends using CSS and D3.js for students in introductory finance classes
- Implemented time-series and cross-sectional analysis with filters and tooltips to allow for comparisons across firms and years

ReceiptTrack - Receipt Image Processing Oct 2022 – Dec 2022

- Developed dashboard web app tool in team of 4 that analyzes receipt images using OCR to produce shopping habit insights
- Incorporated object-oriented design and Plotly Dash to visualize spending trends over time and across food groups

Additional Information

Additional Activities: Dean's List, Collegiate Chess League Division 3 Champion (NEU A Board 1), Chess.com Ambassador, Hillel
Skills: Python, SQL, Git, PySpark, Pandas, NumPy, Sklearn, Statsmodels, SciPy, AWS Glue, Flask, MongoDB, R | Fluent in Russian
Interests: DJing (50+ Events, 20+ Venues), National Parks, Fantasy Premier League, Spikeball, Cycling, Billiards, Backgammon