

Jacob Kulik

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Education

Khoury College of Computer Sciences, Northeastern University, Boston, MA Sep 2021 – May 2025
Candidate for Bachelor of Science in Data Science and Business Administration, Concentration in Finance GPA: 3.98/4.00
Relevant Coursework: Machine Learning 1 & 2, Advanced Programming with Data, Information Visualization, Database Design, Foundations of Data Science, Portfolio Management, Financial Data Analytics, Copenhagen Business School - Investments

Work Experience

Credit Suisse, a UBS Company, 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 20+ equity portfolios for institutional PMs, applying factor framework to construct opportunity and risk screens

Chess.com, Partner Twitch Streamer, Remote Nov 2020 – Present

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

Khoury College of Computer Sciences, Data Science Undergraduate Teaching Assistant, Boston, MA Dec 2021 – Apr 2023

- 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

DATA Initiative Research Lab, Data Analyst Consultant, Boston, MA Dec 2021 – May 2022

- Managed client relationships in team of 4 lab students for startup Hub App, a global event-planning mobile app
- Analyzed behavior of users' final action in app, utilizing Pandas DataFrames in Python with live analytics MySQL databases
- Presented CTO with approach for UI/UX designs centralized around growth within the college student market

Leadership Experience

TAMID Group, Tech Consulting Project Manager (Developer), Fall 2022), Boston, MA Sep 2022 – Present

- Develop a mobile-friendly services web page for cybersecurity startup Invictuss using Tailwind CSS and React.js
- Plan and oversee the design and implementation process of a web page development project for a team of 4 students
- Manage team of 3 students to analyze and visualize unsafe scooter speeds with log data for Israeli startup VComm

Disrupt - The FinTech Initiative, VP (Finnovate Co-Director), Spring 2022), 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 data using CSS, JS, and D3 library for introductory finance class students
- 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

Programming Language Predictor Mar 2022 – Apr 2022

- Tokenized GitHub Repository code snippets with Regex and TF-IDF to train a Multinomial Naive Bayes Classifier
- Launched machine learning model on Heroku with Python framework Flask to predict programming language of user input

Additional Information

Additional Activities: TAMID Group (Tech Consulting), Disrupt Finnovate Program (Finalist), Collegiate Chess League Division 3 Champion (NEU A Board 1), Chess Club (Event Coordinator), Intramural Chess (Champion), Chess.com Ambassador, Hillel
Skills: Python, SQL, JavaScript, Git, Pandas, NumPy, Scikit-learn, Plotly, D3.js, React, Flask, Tailwind CSS, R | Fluent in Russian
Interests: Soccer, National Parks, Fantasy Premier League, Spikeball, Cycling, Billiards, DJing, Emerging Technologies