

# Jacob Kulik

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## Education

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**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 and Data Mining, Information Presentation and Visualization, Financial Data Analytics

Advanced Programming with Data, Database Design, Foundations of Data Science, Copenhagen Business School - Investments

**Brooklyn Technical High School**, Brooklyn, NY Sep 2017 - Jun 2021

*Applied Mathematics Major* | James E. Casey Scholarship 2021 | 2<sup>nd</sup> Place NY Chess Team 2019 | *Weighted GPA: 100.06/100*

## Work Experience

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**Credit Suisse, a UBS Company, HOLT Portfolio & Quantitative Strategy Co-op**, New York, NY Jul 2023 – Present

- Model HOLT versus traditional Quality factors across stock baskets with an interactive dashboard using Plotly Dash and SQL
- Deploy chatbot to answer questions on HOLT primers by conducting transfer learning on a BERT model with HuggingFace
- Analyze 10+ equity portfolios for institutional PMs, applying factor framework to construct opportunity screens

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

- Develop educational channel, focusing on Blitz and Bullet chess, with over 3k followers and 400k total views
- Produce video content, consistently rank in the top 50 English chess channels on the site 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

- Facilitate discussion through weekly office hours and Piazza threads for 500 students in DS2000: Programming with Data
- Instruct 50 students in 2 CS practicum sections, grading and providing individualized feedback on homework and projects
- Collaborate 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

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**TAMID Group, Tech Consulting Developer (Project Manager, 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
- Managed 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

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

## Projects

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**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

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**Additional Activities:** Dean's List, Disrupt Finnovate Program (Finalist), TAMID Group, 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, Stair Climbing, Fantasy Premier League, Spikeball, Cycling, Billiards, Emerging Technologies