Peter Keel

1133 N State Street Chicago, IL

612.715.8382 | pmkeel20@gmail.com | LinkedIn

WORK EXPERIENCE

Cboe Global Markets — **Chicago, IL**

Product Manager — *Nov 2021 – Present*

- Led the development of an automated NewsFeed powered by Trade Alert, starting from initial concept to product, overseeing weekly standups and sprints with developers, specification writing, and design in Python and Jinja.
- Tested and prepared Trade Alert API for standalone release. Authored documentation and command libraries.
- Enhanced and documented Livevol Pro platform with key features like Flow Analytics, Trade Review, and Theo Calc collaborating in an agile environment and addressing client-driven requests.
- Contributed to the development of an API harmonization proof of concept, including constructing a data dictionary, researching API best practices, and conducting parallel analysis between Cboe APIs.
- Supervised and managed an intern, guiding a specialized project in their area of interest, conducting regular meetings, and organizing a final presentation with group leaders.
- Developed and designed Python scripts automating quarterly index rebalancing validations and index processes, significantly enhancing process efficiency and speed – saving hours of quarterly and daily work for the Cboe index team.

Nasdaq — **Rockville, MD**

Senior Index Analyst — *Apr 2021 – Nov 2021*

Index Analyst — *Apr 2020 – Apr 2021*

- Developed coded models and a function library (Python) for the Dorsey Wright suite of weekly indexes resulting in three times faster execution speed and multiple hours saved every week for my team. Presented to my manager and trained the team.
- Coded daily automated index and security quality checks detecting discrepancies in index levels, constituent changes, bond par value changes, bond calls, and upcoming corporate actions.
- Converted 20 plus Access/Excel index models into R or Python resulting in a 30-80% reduction in time spent on index reconstitutions thus allowing analysts to focus their time on improving the quality of Nasdaq indexes.
- Received recognition/awards from fellow team members for finding creative solutions to problems in a timely manner.
- Trained and wrote instructions for interns on querying techniques in R, Python, and SQL.
- Performed analysis and mapping for Bloomberg to Intercontinental Exchange fixed income data migration project.

Wells Fargo — **Minneapolis, MN**

Data Science Intern — *Dec 2019 – Jan 2020*

- Developed Python web app by which traders could receive orders for bonds from portfolio managers and see Bloomberg IMGR top results – prioritizing bonds with favorable in-house credit ratings.

Piper Jaffray Companies — **Minneapolis, MN**

Analytics Fixed Income Intern — *Jun 2019 – Dec 2019*

- Developed statistical models to assign credit scores to municipalities, predict corporate bond rating changes, and predict corporate bond defaults. Utilized data cleaning techniques, performed parameter tuning, and train/test validation.

EDUCATION

Carleton College — **Northfield, MN**

Bachelor of Arts in Mathematics — *Class of 2020*

- Relevant Coursework/Subjects: Probability, Statistics, Micro/Macro Economics, Calculus, Full-Stack Development
- Extracurricular Activities: Founding member of Carleton Organization of Rising Entrepreneurs, Math Tutor (topics including calculus, probability, and statistics), Carleton Investment Office Intern, Varsity Soccer (Academic All-Conference), Varsity Track (Academic All-Conference, All-Conference Honorable Mention, Sportsmanship Award)

Dartmouth Tuck School of Business — **Hanover, NH**

Bridge Program — *Dec 2018*

- Courses: Accounting, Corporate Finance, Managerial Economics, Marketing, Organizational Behavior, Spreadsheet Modeling, Business Strategy, Business Communications
- DCF Valuation Project: Performed a DCF valuation analysis of Domino's Pizza and presented it to industry executives.

PROJECTS

Random Forest NBA Hall of Fame Prediction Model — *Feb 2020*

- Cleaned and modeled NBA Hall of Fame induction probability for a large NBA player dataset using random forest. 10-fold cross-validation was used to train the model. https://keelp2.shinyapps.io/final-project-kim-keel/

SKILLS

Coding: R (tidyverse), Python (pandas), SQL, Bloomberg, Databricks, AWS, Batch, FTP, Linux, Prompt Engineering