

# SeoYoung Kyung

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## WORK EXPERIENCE

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### Vice President, Applied AI/ML

New York, NY

JPMorgan Chase

Feb 2023 – Present

- Designed a new automated FX product with 98% precision and 28% recall to identify low risk banks to conduct automated currency conversions for cross-border payments. Estimated to generate \$1MM in annualized revenue.
- Performed data analyses using pyspark to create data assets and pipelines, numpy and pandas to apply statistical methodologies, xgboost and sklearn to build ML pipelines, and shap to explain model output and behavior.
- Previewed Databricks functionality to organization and worked alongside senior MDs on product usability across ML and Engineering workflow and created firm-wide training videos and demos on developing and deploying ML models on Databricks.
- Pitched a new revenue generating business idea to senior MDs as part of an internal Shark Tank competition and won first place.
- Managed two full-time data analysts and a summer analyst.

### Senior Associate, Applied AI/ML

New York, NY

JPMorgan Chase

Apr 2021 – Jan 2023

- Developed a predictive model with 98% precision and 46% recall to identify low risk accounts to conduct automated FX conversions for cross-border payments. Processed \$450MM in notional amount and generated \$3MM in annualized revenue.
- Developed a predictive model with 99% precision and 54% recall to identify external accounts that are open and valid. Validated 27M accounts and generated \$1MM in annualized revenue.
- Managed two summer analysts and a full-time rotational analyst.

### Data Scientist, R&D

Newark, DE

Air Liquide

Aug 2019 – Apr 2021

- Developed and deployed predictive model on electricity nomination strategy using AWS Fargate, S3, and ECR. Generated \$1.5MM in annualized revenue.
- Deployed time-sensitive project on forecasting Covid-19 oxygen demands and return-to-work scores for all Air Liquide offices and sites in the Americas using AWS Fargate and Google Drive API.

### Graduate Teaching Assistant

Princeton, NJ

Princeton University

Sep 2017 – Jun 2019

- Mentored and wrote letters of recommendation for students applying to scholarship programs.
- Nominated for the Best Teaching Award in the School of Engineering and Applied Sciences in Spring 2019.
- Led two classes a week, graded assignments and exams, and held 2-hour office hours each week.

## EDUCATION

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### Princeton University

Princeton, NJ

Master of Science in Engineering in Computer Science

### Emory University

Decatur, GA

Bachelor of Arts in Computer Science

## CERTIFICATES & AWARDS

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JP Morgan Payments 2024 Shark Tank Winner

Air Liquide Be Innovation 2020 Innovator Award

AWS Certified Developer's Associate

## SKILLS

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**Libraries:** pandas, numpy, pyspark, xgboost, mlflow, scikit-learn, lightfm, abydos, matplotlib, seaborn, tabpy, shap

**Languages:** Python, C, Java, Typescript, SQL, x86-64, LaTeX

**Tools:** Databricks, Spark, Hive, Git, Docker, PowerBI, Tableau, MacOS, Linux

**AWS:** Lambda, API Gateway, Fargate, Batch, ECS, ECR, RDS

**Volunteer:** Break Through Tech, SATO Project