

Curriculum Vitae

Ryu Izawa

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EXPERIENCE

Paperless, Inc.

Data Analyst, Data Team

Jan 2018 – Jun 2020

On the Data Team at Paperless Post, Ryu managed analyses of site traffic, financial metrics, performance statistics, and forecasting using regression analysis for the Finance and Accounting teams. He guided the Marketing team and Product Managers on A/B testing and statistical analyses of user behavior. He designed the data schema for the Marketing team and implemented the pipelines with our Data Engineer. Projects that Ryu led included marketing attribution models using a combination of streaming and warehouse data, network graphing of user accounts using both Neo4j and the networkx Python library, as well as the application of natural language processing to understand customer needs and market trends.

BlueMountain Capital Management, LLC

Treasury Group, Portfolio Finance

Nov 2013 – Sep 2017

At BlueMountain Capital Management, LLC, Ryu worked on the Treasury Group, where his primary responsibility was the analysis of funding, collateral and financing costs and the optimal allocation of capital. He created analytic tools and data pipelines for the Treasury Group, with which the group was able to pursue higher value analyses in our main areas of focus. Ultimately, Ryu researched the application of machine learning to the optimization of capital allocation.

Deutsche Bank Securities, Inc.

Interest Rate Derivatives, Global Business Services

Jun 2009 – Nov 2013

Ryu worked on the Interest Rate Derivatives Middle Office team, where he analyzed and reported profit and loss, positions, risk, attribution, cash flows and market data. He was responsible for modernizing data management and procedures. Ryu partnered with Accounting to produce monthly, quarterly, and yearly finance reports and was the team's liaison to the Federal Regulatory Projects group.

Credit Suisse (USA) Inc.

Derivatives Support and Control, Documentation

Jan 2006 – Jun 2009

Ryu led the Equity Derivative Documentation team, automating the Corporate Financing, Monetization and Private Client businesses. He represented the team in work with the Legal and IT departments. He wrote the library of documentation drafting tools for the Americas, prior to which trade documents were not standardized and drafted manually. While working with the Private Client business, he applied the unique prime factorization theorem to develop a legal agreement engine. This cut the documentation time for Private Client transactions by 96%, from two days to under two hours.

EDUCATION

University of Colorado

Mathematics B.A.

Graduated 2004

Ryu received his B.A. in mathematics. His coursework covered Probability, Combinatorics, Coding and Cryptography, Set Theory, Numerical Analysis and Differential Equations, along with several computer science courses. In addition to this curriculum, he collaborated with researchers in areas of interest, including discussions on Positional Astronomy with Fiona Vincent, University of St. Andrews, Scotland and an interactive H5N1 mapping project with Dr. Andrew Hill.