Chloe Y. Moon

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EDUCATION

Wellesley College, Wellesley, MA   August 2015 – May 2019
B.A. in Economics, Minor in Statistics, GPA: 3.73/4.0
Relevant Coursework: Databases w/Web Interfaces (SQL); Data Structures (Java); Computer Programming (Python); Causal Inference; Applied Data Analysis; Probability & Statistics; Linear Algebra; Combinatorics & Graph Theory; Finance Theory and Applications
Worcester College, University of Oxford, Oxford, UK   September 2017 – December 2017
Coursework: Behavioral Economics; Game Theory
Horizons School of Technology, San Francisco, CA   May 2017 – August 2017
Developer at a full-stack software engineering program focused on entrepreneurship and web development in JavaScript, HTML, and CSS.

EXPERIENCE

***Data Visualization*, Active Archive Initiative, MIT Comparative Media Studies**   February 2019 – Present
- Collaborate with professor Kurt Fendt to create an open access tool for the Digital Humanities Active Archive project.
- Import, clean, and export MIT's DSpace theses collection data from XML to JSON. Utilize JavaScript and D3.js to perform lexical analysis on texts, visualize networks on the web, adjust language-parsing parameters, and optimize codes.

***Research Data Analyst,* MIT Sloan School of Management**   September 2018 – December 2018
- Developed datasets through text scraping and analysis that will be used to examine the effect of corporate debt covenants on firms' reaction to different economic conditions.
- Utilized Python and its Beautiful Soup and Natural Language Toolkit (NLTK) to crawl text files from the SEC's portal EDGAR, extract the relevant data, and develop and train algorithms to translate the data into a usable catalog of covenants.

***Summer Analyst,* Global Consumer Banking Group, Citibank Korea**   June 2018 – August 2018
- Obtained relevant data from the decision management team and created daily Management Information System (MIS) reports with Excel to effectively inform the department on its performance.
- Conducted customer survey of 200 respondents, analyzed results, researched competitive landscape, and pitched Citibanking segment's value proposition to Head of Consumer Finance Group and Head of Consumer Franchise Division.

***Research Assistant for Professor Sari Kerr,* Wellesley College Economics Department**   June 2017 – December 2017
- Extracted ACS PUMS data from 2000 to 2015 and refined them to analyze trends and differences.
- Utilized Tableau, D3.js, and Stata to compute descriptive and summary statistics and create 30+ data visualizations, including maps and graphs, from raw data of 177,000,000 observations.

***Undergraduate Researcher*, MIT Sloan School of Management**   October 2016 – May 2017
- Collaborated with a doctoral student on a research project, "Big Data/Predictive Analysis for Emergency Coordination," to understand the impact of mobile technology from incoming 911 calls and improve emergency coordination and decision-making processes.
- Utilized Stata to decipher 400,000 raw 911 call data across multiple cities and years to create 100+ descriptive statistics and analyzed implications of these trends.

FEATURED PROJECTS

Predicting Housing Prices in the Pacific Region | Language: R   Fall 2018
- Developed four regression and tree models to predict housing prices in the Pacific Region with Survey of Construction data.
- Cleaned dataset to obtain 2000 out of 10,000+ observations, performed cross-validation and tree-based imputation, and compared model selection criteria (AIC, BIC, RMSE) to identify the best model.

The Christmas Bombs | Language: Java   Fall 2018
- Utilized object-oriented programming and abstract data types to build an interactive arcade game in Java.
- Designed back-end algorithm for the game and implemented GUI using Java Abstract Window Toolkit (AWT) and Swing.

R3 - Entrepreneurship Lab Strategy Consulting Project | MIT Sloan School of Management   Spring 2018
- Worked with R3, a DLT platform fin-tech company, and 4 MBA students to provide data-driven strategies for the growth of the venture.
- Identified beachhead market for R3's platform by interviewing target customers and researching existing digital marketplace platforms.

Real Time FAANG Stock Prices | Language: R   Winter 2018
- Built a Shiny application in RStudio that plots the prices of 5 major technology stocks and automatically updates everyday.
- Utilized quantmod to crawl real-time stock prices and ggplot to visualize the trends.

LEADERSHIP

***President,* Wellesley Korean Students Association**   September 2015 – Present
- Lead the biggest cultural organization on campus to host 30+ events, promoting greater understanding of Korean culture, social issues, and political events on campus. Execute the annual culture show for 600+ attendees and manages funding of $10,000+ per semester.

SKILLS

Technical	Programming: Python, R, SQL, Java, JavaScript (ES6), HTML/CSS | Tools: Stata, Tableau, Git, D3
Language	Korean (Native), English (Bilingual), Chinese (Intermediate)
Career Dev.	PEEK Program (Harvard Business School), Building a Business (Saïd Business School, Oxford)