Joseph Song

josephsong@college.harvard.edu
(818) 590-5634 | 160 Quincy Mail Ctr, Cambridge, MA 02138

EDUCATION

Harvard University   Cambridge, MA
Expected Bachelor of Arts in Statistics, Secondary in Computer Science: May 2017
- *Academics*: 3.7 GPA with an relevant coursework in Data Visualizations, Linear Models, Probability, Functional Programming, Design of Useable Interactive Systems, Multivariable Calculus, Linear Algebra, Micro/Macro Economics
- *Current Coursework:* Systems, Data Systems
- *Leadership:* Tutoring Agency Manager at Harvard Student Agencies, Inc., Vice President of Finance for AMBLE Business Club, Frosh Team Leader of Asian American Christian Fellowship, Financial Manager of Club Basketball Team

La Canada High School   La Canada, CA
La Canada High School Diploma   June 2013
- *Academics:* SAT I: 2400
- *Leadership:* Founder & President of National Forensics League Speech & Debate Club (and now class); Founder & President of Science Team; Network President of LOOK International; Chairman of School Site Council
- *Awards:* Top 5% of Class, Presidential Scholar Semi-Finalist, Presidential Award for Community Service Gold (200 hours)

EXPERIENCE

GSN (Game Show Network) Games   Boston, MA
Analytics / Software Engineering Intern   Jan. 2015 – August 2015
- Created a new LTV (lifetime value) model for user acquisition team that outperformed previous model in 90% of user cohorts by introducing historical data and creating a combination of both the legacy model and trailing historical medians
- Designed new user onboarding experience by analyzing user conversion rates as a function of size of first spend, session times, volatility, wager sizes, etc
- Completed weekly analytics requests from key company business stakeholders, including A/B testing on sale juicing, proof of concept experiments, deep dives into pricing optimization and decline in revenue
- Worked with QA team to identify and add additional features such as animation, glow effects, etc. to mobile games

Citystream Inc. & Harvard Alumni Entrepreneurs   Cambridge, MA
Software Engineering Intern   Nov. 2014 – Apr. 2015
- Developed new website for the Harvard Alumni Entrepreneurs, which included a new social networking platform to help Harvard alumni make professional connections, conduct job searches, and find entrepreneurial opportunities

Mavenomics, Inc.   Cambridge, MA
Product Marketing Intern   June 2014 – July 2014
- Used company software to create various demographics dashboards containing tree maps, bar charts, and cartograms to enhance overall marketability of the Maven platform

Harvard Data Ventures   Cambridge, MA
Director of Statistics   June 2014 – May 2015
- Taught fundamentals of statistical modeling, econometrics, optimization, and machine learning to club members

Harvard University Faculty of Arts and Sciences   Cambridge, MA
Teaching Fellow   Jan. 2014 – Present
- Courses: Stat 104 (Introduction to Statistics) from Jan. 2014 – May 2015, CS 109 (Data Science) from Aug. 2015 – Present
- Responsibilities include: holding weekly sections and office hours, grading homework, and meeting with course heads.

PROJECTS

Predicting NBA 3PT FG% for the 2014-2015 Season
- Created a model to predict each NBA player's 3 PT% by scraping individual player statistics from CBSSports and comparing the cross-validated performance of various regularized regression models

Shortest Path Heuristic
- Developed a heuristic to find the shortest path given locations of a set number of nodes, the maximum number of edges a node can have, and importance of each node and that can go up to n=30 as opposed to the brute force method max of n=8

SKILLS & INTERESTS

Technical Skills
Proficient: Python, R, SQL, HTML, CSS, C, Powerpoint, Excel, Linux
Have Used: Ocaml, Javascript, D3, C#, Node.js, Stata, Unity
Foreign Languages: Conversational Korean