

KATHERINE MARLOWE

University Address: 362 Memorial Dr. · Cambridge, MA 02139

Home Address: 708 Greenwich St. #2D · New York, NY 10014

kpvm@mit.edu · 917-403-0096

EDUCATION

Massachusetts Institute of Technology

Cambridge, MA

Candidate for S.B. in Computer Science and Engineering, Minor in Statistics and Data Science

Sep 2013 - June 2017

GPA: 4.6/5.0

Relevant Courses: Design and Analysis of Algorithms (6.046), Artificial Intelligence (6.034), Statistics, Computation and Applications (IDS.012), Software Studio (6.170), User Interface Design (6.813), Systems Engineering (6.033), Software Construction (6.005), Data Storytelling Studio (CMS.631), Communicating through Mobile Technology (21W.789), Optimization Methods in Business Analytics (15.053)

High School for Math, Science & Engineering at the City College of New York

New York, NY

GPA: 98/100 · ACT Composite: 34

Sep 2009 - June 2013

EXPERIENCE

Google Inc.

Mountain View, CA

Software Engineering Intern, Google Fit

May 2016 - Aug 2016

- Designed the logic for recommending relevant fitness goals to users based on significant changes in fitness activity and implemented the recommendation on the server in Java
- Implemented the user interface for goal recommendations on the Android Fit app and iterated on the design with user experience designers

Google Inc.

New York, NY

Engineering Practicum Intern, Search

May 2015 - Aug 2015

- Conducted A/B testing on user interface search features
- Wrote MapReduces in Go to run on search logs to collect data from the experiment
- Calculated and compared metrics of interest to quantify influence of the feature on user engagement
- Presented findings to engineers and product managers to aid in future allocation of resources and project prioritization

MIT Sloan School of Management

Cambridge, MA

Undergraduate Researcher, Laboratory for Financial Engineering

Feb 2014 - May 2016

- Collaborated with Professor Andrew Lo to create behavioral models of individual risk preferences
- Programmed interactive assessment in Python to test for probability matching behavior in 100 subjects
- Wrote script in Python to analyze results using statistical hypothesis testing

Continental Automotive

Regensburg, Germany

Intern, Interior Electronics Solutions

June - Aug 2014

- Contributed to the Highly Automated Driving backend team for autonomous vehicles
- Researched Simultaneous Localization and Mapping algorithm, and its applications for visual landmark detection and tracking for autonomous driving
- Presented research findings, including algorithm overview and use cases to engineering team

JPMorgan Chase

New York, NY

Intern, Chase Wealth Management Technology

July - Aug 2013

- Assisted with development of an application for financial advisors to organize and communicate with their clients
- Collected and analyzed application usage data to determine successful and unsuccessful features

LEADERSHIP

MIT Alpine Ski Team, *Captain*

Sep 2013 - Present

Alpha Chi Omega Sorority, *Assistant VP of Recruitment & Formal Planning Chair*

Sep 2013 - Present

Baker House Executive Board, *VP of Residential Exploration and Orientation*

May 2015 - Present

Baker Leaders, *Mentor*

Sep. 2013 - May 2015

SKILLS

Skills ordered from most to least proficient:

- **Languages:** Python, Java, Javascript, HTML/CSS, Julia, Go
- **Tools:** Eclipse, git, jQuery, Android Studio, Vim, L^AT_EX, JuMP, Excel/Google Sheets, NumPy, Qualtrics
- **Foreign Language:** German (conversational)