KATHERINE MARLOWE

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EDUCATION

Massachusetts Institute of Technology   **Cambridge, MA**
Candidate for S.B. in Computer Science and Engineering, Minor in Management Science Sep 2013 - June 2017 (Expected)
GPA: 4.5/5.0
Relevant Courses: Design and Analysis of Algorithms (6.046), Artificial Intelligence (6.034),
  Intro to Algorithms (6.006), Software Construction (6.005), User Interface Design (6.813),
  Optimization Methods in Business Analytics (15.053), Probability and Random Variables (18.600),
  Communicating through Mobile Technology (21W.789), Data Storytelling Studio (CMS.631)
  Microeconomics (14.01), Macroeconomics (14.02)

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, Android   May 2016 - Aug 2016
- Will be interning on Android Fitness team this summer building a user facing feature

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 - Dec 2015
- 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, Julia Go
- **Tools**: Eclipse, git, jQuery, LaTeX, JuMP, PythonXY, Excel/Google Sheets, NumPy, Vim, Qualtrics
- **Foreign Language:** German (conversational)