

Karen Sittig

Software Engineer - Facebook

Cambridge, MA - Email me on Indeed: indeed.com/r/Karen-Sittig/bfef7dfe1f433d98

Willing to relocate: Anywhere

Authorized to work in the US for any employer

WORK EXPERIENCE

Software Engineer

Facebook - Cambridge, MA - January 2014 to Present

Prototyped a system to scan the Hive data warehouse and classify the types of data in columns. Worked with partner

teams to apply data classifications for better corporate security.

- Led development and implementation of the data classification framework. Over 90% of the data was classified correctly.
- Represented Facebook at conferences and in the press. Gave multiple invited technical talks.

Data Scientist II

Twitter - New York, NY - July 2013 to October 2014

Prototyped and implemented machine learning models in a production environment using Scala and Scalding. Performed

data analyses to inform business decisions.

- Projects included analyzing user profile locations using the TwoFishes geocoder and building Vowpal Wabbit logistic regression models to classify users.
- Experimented with graphical models to predict live user and IP address locations, resulting in up to 30% improvements in IP targeting accuracy down to the zip code level.

Research Assistant

MIT Lincoln Laboratory - Lexington, MA - June 2012 to June 2013

Leveraged commonsense data from the Open Mind Common Sense project to aid simulated agents in understanding text

topics and intent.

- Designed and ran experiments to assess the utility of various methods of topic identification and the semantic coherence of the topics produced.
- Built classifiers that enabled software agents to detect affordances on live webpages and carry out complex goal-directed behaviors.

Instructor

MIT's - Cambridge, MA - January 2011 to 2012

2013

- Designed and lectured an Introduction to Python course, consisting of five lectures, five assignments, and one final project for 150 undergrad students.
- Hired, trained, and supervised six teaching assistants.

- Assisted students in completing problem sets and final projects. Received high marks on course evaluations for both the course and my lecturing.

Software Engineering Intern

Google, Ads Division - Mountain View, CA - June 2011 to August 2011

- Trained and evaluated machine learning classifiers to detect various types of fraudulent pornographic advertisements.
- Utilized internal tools such as MapReduce and Flume Java to analyze large amounts of data.

EDUCATION

M. Eng. in Computer Science

Massachusetts Institute of Technology - Cambridge, MA

June 2013

B.S. in Computer Science

Massachusetts Institute of Technology - Cambridge, MA

June 2012

SKILLS

Security (2 years), Python (8 years)

LINKS

<https://kasittig.com>

ADDITIONAL INFORMATION

I'm seeking positions in product security where I can use my engineering skills to improve internal systems and better protect users.