

## Sean S. Choi

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**Work Experience** *Senior Member of Technical Staff / Researcher* June 2015 - Current  
VMWare Inc., Palo Alto, California

- Working as a researcher in the network securities business unit
- Projects involve software defined networking, network virtualization and protocol independent software switches

*Software Engineer* Sept 2014 - May 2015  
IMO.IM, Palo Alto, California

- Optimized data model and backend services for scalability

*Data Researcher/Software Engineer* July 2013 - Sept 2014  
LinkedIn Corporation, Mountain View, California  
Contact Information: Sam Shah, [samshah@linkedin.com](mailto:samshah@linkedin.com)

- Optimizing email sends by not sending emails to users who are less likely to interact with a particular set of emails
- Optimizing collaborative filtering algorithm for *People who viewed this also viewed* module

*Data Analytics Contractor* Feb 2013 - July 2013  
RavellLaw, Palo Alto, California  
Contact Information: Daniel Lewis, [contact@ravellaw.com](mailto:contact@ravellaw.com)

- Developed a system to identify judges opinions for a set of legal cases

*Head Teaching Assistant* Jan 2013 - Aug 2013  
Stanford University, Stanford, California  
Contact Information:

Professor Yoav Shoham, [shoham@cs.stanford.edu](mailto:shoham@cs.stanford.edu)

Professor Jure Leskovec, [jure@cs.stanford.edu](mailto:jure@cs.stanford.edu)

Instructor Keith Schwarz, [htiek@cs.stanford.edu](mailto:htiek@cs.stanford.edu)

- Aided in lecturing, organizing and managing CS224M, CS246, CS161

*Data Mining Intern* June - Sept 2012  
LinkedIn Corporation, Mountain View, California  
Contact Information: Sam Shah, [samshah@linkedin.com](mailto:samshah@linkedin.com)

- Contributed to Apache Giraph community with graph analysis tools
- Worked to put Giraph into daily LinkedIn batch workflow

*Founder, Engineering Director* May 2011 - June 2012  
OttoLikes.com (MuckerLabs incubated), Palo Alto, California  
Contact Information: Ron Shaeffer, [rshaeffer@gmail.com](mailto:rshaeffer@gmail.com)

- Developed a Recommendation system for restaurants
- Managed/Developed all aspects of the system, from databases to front-end
- Took part in business operations and workflow

*Application Engineer* July - Oct 2011  
Oracle Corporation, Redwood Shores, California

- Part of Fusion Applications Development team

**Teaching Assistant** Sept 2010 - June 2011  
 California Institute of Technology, Pasadena, California  
 Contact Information: Maria Lopez, [mlopez@cs.caltech.edu](mailto:mlopez@cs.caltech.edu)

- Aided in lecturing, organizing and managing courses.
- List of courses: CS 1, CS 2, CS 3, CS 11, CS 171

**Education**

**Doctor of Philosophy** Current  
 Electrical Engineering  
 Stanford University, Stanford, California  
 Advisor: Nick McKeown  
 Concentration: Software Defined Networking

**Master of Science** 2013  
 Computer Science  
 Stanford University, Stanford, California  
 Concentration: Artificial Intelligence, Information Management

**Bachelor of Science with Honors** 2011  
 Computer Science, Business Economics and Management  
 Option Advisors: Prof. Adam Wierman, Prof. Jaksza Cvitanic  
 California Institute of Technology, Pasadena, California

**Professional Skills**

**Languages**  
 Java, Python, C, C++, MATLAB, Scheme, HTML, CSS, PHP, AS3, Ruby, Javascript

**Web-Dev Related**  
 Pyramid (Pylons), Django, GWT, Node.js, DWR, webMathematica, REST, ...

**Cloud Related**  
 Pig, Hive, Hadoop, Giraph, Mahout, Amazon AWS (S3, EC2, EMR, ...), ZooKeeper, Azkaban

**Database Related**  
 MySQL, MongoDB, Oracle, Cassandra, HDFS

**Research Experience**

**Massive Multiplayer Online Biotic Game** Sept 2011 - June 2013  
 Stanford University, Stanford, California  
 Mentor: Professor Ingmar Riedel-Kruse, [ingmar@stanford.edu](mailto:ingmar@stanford.edu)

- Developed an online multiplayer game that running on biological experiments with real live organisms
- Implemented crowd-sourcing techniques to gain research value

**Radiation Detection Engine and Analysis** June 2010 - Sept 2010  
 California Institute of Technology, Pasadena, California  
 Mentor: Professor Mani K. Chandy, [mani@cs.caltech.edu](mailto:mani@cs.caltech.edu)

- Developed python based virtual radiation detection engine and visual simulator

**Unconscious and Concious Image Memory** June 2009 - Sept 2009  
 California Institute of Technology, Pasadena, California  
 Mentor: Professor Christof Koch, Ph. D. Jeroen Van Boxtel

- Sought to discover the effects of consciousness on image memorization

- Designed experiments with MATLAB and Psychtoolbox and tested on human subjects

**Publications**

Wu L. Shah S. Choi S., Tiwari M., Posse C., *The Browsemaps: Collaborative Filtering at LinkedIn*, Submitted to RecSYS, 2014

Choi S., Ryu E. *Stochastic Kronecker Graph on Vertex-Centric BSP* (In progress) (Link to Paper), 2012

Choi S., Grewal E., Wen Kai, *Social Data and College Statistics*, #Influence12 Symposium and Workshop, 2012 (Link To Paper)

**Patents**

3080.312PRV **Job Recommendation Engine Using a Browsing History**

**Miscellaneous Information**

- Active Apache Giraph Contributor
- President of Caltech Korean Student Association
- Fluent in English, Korean