

## Sean S. Choi

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- Work Experience**
- Research Engineer** Sep 2017 - Dec 2018  
Facebook Inc., Menlo Park, California  
Contact Information: Sonja Keserovic, [sonjake@fb.com](mailto:sonjake@fb.com)
- Designing and Improving Facebook data center network and infrastructure
- Research Intern** Jun 2016,17 - Sep 2016,17  
Barefoot Networks Inc., Palo Alto, California  
Contact Information: Changhoon Kim, [chang@barefootnetworks.com](mailto:chang@barefootnetworks.com)
- Research on applications of programmable data planes.
- Senior Member of Technical Staff** Jun 2015 - Sep 2017  
VMWare Inc., Palo Alto, California  
Contact Information: Ben Pfaff, [bpfaff@vmware.com](mailto:bpfaff@vmware.com)
- Researching SDN and NFV in the network securities business unit
- Software Engineer** Sep 2014 - May 2015  
IMO.IM, Palo Alto, California
- Optimized data model and backend services for scalability
- Data Engineer** Jul 2013 - Sep 2014  
LinkedIn Corporation, Mountain View, California
- Optimize email sends and friendship requests via Supervised Machine Learning
- Data Consultant** Feb 2013 - Jul 2013  
RavelLaw, 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
- Data Mining Intern** Jun 2012 - Sep 2012  
LinkedIn Corporation, Mountain View, California
- Contributed to Apache Giraph community with graph analysis tools
- Founder, CTO** May 2011 - Jun 2012  
OttoLikes.com (MuckerLabs incubated), Palo Alto, California  
Contact Information: Ron Shaeffer, [rshaeffer@gmail.com](mailto:rshaeffer@gmail.com)
- Developed and operated a recommendation system for restaurants
- Application Engineer** Jul 2011 - Oct 2011  
Oracle Corporation, Redwood Shores, California
- Part of Fusion Applications Development team
- Education**
- Doctor of Philosophy** 2019  
Stanford University, Stanford, California  
Major: Electrical Engineering  
Advisor: Mendel Rosenblum  
Concentration: Software Defined Networking, Cloud Infrastructure
- Master of Science** 2013  
Stanford University, Stanford, California

Major: Computer Science  
Concentration: Artificial Intelligence, Information Management

***Bachelor of Science with Honors***

2011

California Institute of Technology, Pasadena, California

Major: Computer Science, Business Economics and Management

**Publications**

Choi S. et al. ***Toward Scalable Replication Systems with Predictable Tails Using Programmable Data Planes.***, ACM APNet, Beijing, August 2019.

Choi S. et al. ***FBOSS: Building Switch Software at Scale.***, ACM SIGCOMM, Budapest, August 2018.

Choi S. et al. ***The Case for a Flexible Low-Level Backend for Software Data Planes.***, ACM APNet, Hong Kong, August 2017.

Cidon E., Choi S. et al. ***AppSwitch: Application-layer Load Balancing within a Software Switch.***, ACM SIGCOMM APNet, Hong Kong, August 2017.

Shahbaz M., Choi S. et al. ***PISCES: A Programmable, Protocol-Independent Software Switch.***, ACM SIGCOMM, Florianópolis, Brazil, August 2016.

Wu L. Shah S. Choi S. et al. ***The Browsemaps: Collaborative Filtering at LinkedIn***, RSWeb. ACM, 2014.

Choi S. et al., ***Stochastic Kronecker Graph on Vertex-Centric BSP***, 2012.

Choi S. et al., ***Social Data and College Statistics***, #Influence12 Symposium, 2012.

**Patents**

US 14/631,728 **Personalized Email Widget Recommendation**

US 14/274,387 **Job Recommendation Engine Using a Browsing History**