Peter A. Lofgren

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EDUCATION

PhD in Computer Science   December 2015
Stanford University
Advisor: Ashish Goel
Thesis: Efficient Algorithms for Personalized PageRank
Qualifying Exam in Data Mining
Published in NIPS, KDD, PVLDB, WSDM, SIGMOD

Bachelor of Science in Mathematics, Computer Science   May 2011
University of Minnesota Twin Cities, Minneapolis, MN
Summa Cum Laude

WORK EXPERIENCE

Machine Learning Engineer   October 2016 - Present
Stripe
- My most visible project was designing, implementing, and testing the hundreds of features that power Radar 2.0, which reduced fraud by over 30% compared to Stripe's previous model without increasing the false positive rate
- Became tech lead and promoted in 2018

Software Engineer   November 2014 - October 2016
Teapot Inc. (A social network analysis start-up acquired by Stripe)
- Designed and implemented a graph processing service for real time ranking and sortest paths on graphs with billions of nodes and edges
- Applied Deep Learning to hundreds of millions of social profiles

Software Engineering Intern   June-September 2014
LinkedIn
- Used machine learning, Hadoop, and R to analyze large amounts of user behavior data and improve News-Feed recommendations

Software Engineering Intern   June-September 2013
Concept.io (a podcast recommendation start-up acquired by Apple)
- Designed, implemented, and tuned Concept.io's new production recommendation algorithm which automatically learns the topic of podcasts and preferred topics for each user

Software Engineering Intern (Research)   June-September 2012
Google
- Discovered and implemented distributed data mining algorithms that help Google understand changes in revenue

Summer Associate IV   June-August 2011, June-August 2010
Center for Communications Research
- Invented a new algorithm for a large-scale cryptographic problem and found parameters to optimize its performance

Mathematics Research in the Director's Summer Program   May-August 2009
National Security Agency
- Invented and patented a cryptographic method with two co-workers

SKILLS

Machine Learning, Deep Learning, Research, Data Mining, Algorithms, Databases, Scala, Python, Java, C++, Javascript, R, Bash, AWS, Hadoop

HONORS

National Defense Science and Engineering Graduate Fellowship (2011-2014)
Churchill Scholarship Finalist (one of 21 finalists in the U.S.) (2011)
ACM International Collegiate Programming Contest (2007-2011, team ranked 1st out of 225 teams in 2010 North Central North America Region)