
Sean Gerrish

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Work Experience:

- **Member, South Park Commons** (August 2017 – Present). South Park Commons is a learning community fostering technical projects. Working on a book and exploring startup ideas.
- **Quantitative Engineer, Teza Technologies** (October 2015 – September 2017). Teza is a quantitative hedge fund. Developed and implemented systematic trading strategies using unstructured, “alternative” data sources to predict market moves.
- **Engineer and Engineering Manager, Google, Inc.**
 - **Staff Software Engineer and Engineering Manager, Google** (July 2013 – October 2015)
 - Technical lead / manager for **Google News** ranking and quality. Moved Google News ranking over to a machine-learned ranking. Consulted for news personalization team.
 - Technical lead / manager for **Ads Metrics**, a group of quantitative analysts and engineers who measure Google's ads system. Managed the engineering part of the team while mentoring statisticians on engineering and engineers on statistics and machine learning.
 - **Senior Software Engineer, Google** (January 2005 – August 2008)
 - **Keyword Spam.** Technical lead of an ads engineering team that removed millions of spammy ads from Google.com using machine learning.
 - **Decision Support.** Performed analyses and built data tools for groups like finance, legal, ads, and executive management.
 - **Landing Page Quality.** Designed and built a classification server to predict landing page quality for hundreds of millions of ads per day.
- **Hiring.** Interviewed over 80 engineers and statisticians, served ~4 years on hiring committees, and recruited engineers and statisticians for our teams.
- **Misc.** Founder of the *Unofficial Google Data Science Blog*; received spot and peer bonuses; won EMG award from management; and organized a logs analysis Go bootcamp for Ads Quality and the broader Google community.
- **Software Engineer, Sift Science** (September 2012 – June 2013). Built features and updated classifiers to identify suspicious behavior on the Internet. Also built reporting tools.
- **Graduate Research Assistant, Princeton University** (September 2008-June 2012). As part of the statistical learning group, developed statistical models for gleaning latent information from large text and social science datasets. The emphasis was on statistical models of text called topic models. Teaching assistant for *Interacting with Data* and *Computers in Our World* courses.
- **Advanced Technologies Research Intern, JSTOR, Inc.** (June 2009-August 2009). Developed search engine prototypes and Web interfaces for JSTOR using probabilistic topic models.
- **Research assistant, University of Michigan** (June 2001-January 2005). Research areas included Computational Linguistics and Information Retrieval, algebraic combinatorics, robotics, and high-energy physics. Helped build the “God Particle” detector. Tutored all standard undergraduate math courses at the U. Michigan MathLab. Graded Honors Introduction to Topology.

Computers:

- Languages and software: Python (most recent), C++, R, Go, SQL, Java (rusty).

For fun:

- Author of the book *How Smart Machines Think* (MIT Press), to come out in August 2018.

Education:

- 2013: PhD in **Computer Science (Machine Learning), Princeton University**; 3.79 GPA.
- 2004: B.S., High Honors, in **Mathematics, University of Michigan**; Physics minor; 3.84 GPA.
- 1998-2000: **Mathematics** up to Differential Equations, Linear Algebra at Delta College; 4.0 GPA.