Brian Gawalt

Experience

2016–Present **Sr. Software Engineer**, *Google*, Mt. View.
Machine learning and analytics code, deployed on servers and Android devices.
- Storage Analytics: Capacity management for Persistent Disk
- Google Fi: Metrics and machine learning for optimizing cellular network quality
- Web search: Doc metrics and selection rules for the web index

2014–2016 **Sr. Data Scientist**, *Upwork*, Mt. View.
Predictive modeling for a freelancing market place and related search engines.
- Predict freelancer eagerness, boosting job interview acceptance rates by 40% and first-time employer hiring rates by 10 pct. points.
- Predict freelancer wage potential to stymie under-bidding. Estimated 10% revenue gain.

2012–2014 **Data Scientist**, *Quantifind*, Menlo Park.
Machine learning and text mining utilities to provide marketing and campaign advice based on social media messages. Large scale modeling using Scala and Apache Spark.

Skills

Proficient Apache Beam, C++, Python, Scala, Apache Spark, SQL, TensorFlow

Familiar Hadoop, Java, Android, JavaScript, R

Education

2005–2012 **Ph.D., Elec. Eng. & Computer Sciences**, *University of California*, Berkeley.
Concentration: Convex optimization, applied machine learning
Dissertation: "Convex Approaches to Text Summarization" (Advisor: Laurent El Ghaoui)

2001–2005 **B.S., Electrical Engineering**, *University of Virginia*, With Highest Distinction.
Concentration: Statistical signal processing
Thesis: "Blind Modulation Detection" (Advisor: Stephen G. Wilson)

Selected Talks and Papers

2015 B. Gawalt, **"Deploying Predictive Models with the Actor Framework,"** 2nd International Conference on Predictive APIs and Apps.

2014 J. Jia, L. Miratrix, B. Yu, B. Gawalt, L. El Ghaoui, L. Barnesmoore, S. Clavier, **"Concise Comparative Summaries (CCS) of Large Text Corpora with a Human Experiment,"** Annals of Applied Statistics, Vol; 8, No. 1.

2012 K. Heimerl, B. Gawalt, K. Chen, T. Parikh, and B. Hartmann, **"Communitysourcing: Engaging Local Crowds to Perform Expert Work via Physical Kiosks,"** Proc. of the SIGCHI Conf. on Human Factors in Computing Systems [Best Paper].

Awards

2007-2008 **Outstanding Graduate School Instructor**, UC Berkeley

2005 **Louis T. Rader Chairperson's Award**, UVA Dept. of Elec. Eng.

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