Brian Gawalt

Experience

2016–Present **Sr. Software Engineer**, *Google*, Mt. View.
Machine learning and analytics code, deployed on servers and Android devices.
- Gemini Cloud Assist: ML (er, AI?) for automated troubleshooting for GCP customers
- 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 Go, C++, Python, Scala, Beam, 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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