

## PROFESSIONAL EXPERIENCE

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### FACEBOOK

*Data Scientist*

New York, NY / Menlo Park, CA

Jul 2015 – Present

- Set strategy, roadmaps, metrics, and goals for messaging, emerging market, search, and Pages products through analyses of user data. Currently supporting a team of 20 engineers to build new business search and discovery experiences across Facebook and Instagram.
- Find opportunities to improve product quality, retention, and growth; lead engineers to ship product changes and measure impact through A/B testing; build data pipelines and dashboards to track ecosystem health and long-term progress towards key objectives.
- Conducted a foundational analysis on business discovery behavior on Facebook, helping the company understand the drivers and mechanics behind business discovery and search, consumer journeys and engagement funnels, and growth opportunities.
- Identified search keywords with high-volume failures and led engineers to improve results for those keywords, decreasing failed searches by 5 million and increasing Facebook search quality by 2%.
- Discovered that Facebook under-counted visits to its Pages product by 30%, causing the Pages team to spin up a new engineering team and execute on a one-year roadmap to overhaul all logging for the product.
- Launched several new features, like the camera shortcut and “media tray” in Facebook Messenger (to quickly send photos and saved content) and Facebook’s first video search product (to search for videos on Facebook and inside the Watch tab), and launched many more (50+) improvements to existing search, emerging market, and messaging products.

### DECISIONTEK

*Software Engineer*

Rockville, MD

May 2009 – Dec 2012

- Helped build the leading rail safety assessment software in the country, used by the Federal Railroad Administration to ensure new safety technologies reduce the risk of accidents by at least 80%. The software allows users to model real-life rail systems and simulate hundreds of years of train movement and traffic to assess a rail territory’s risk of producing train accidents.
- Co-designed a statistical framework for assessing the risk of rare train accidents, which was published in a top transportation journal (TRR) and which I presented at the top transportation conference in the country (TRB meeting).
- Developed a web application to help our users visualize and edit railroad infrastructure input data, reducing data-entry time five-fold.
- Demonstrated product features and research results to Federal Railroad Administration officials during review meetings, including comprehensive walk-throughs of how project deliverables met requirements and quality standards.

## OTHER RELATED EXPERIENCE

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- Performed field site research in Southern China on labor NGOs that help injured migrant workers and developed an app for the NGOs to track individual support and measure the impact of their services (2015).
- Spent 3 months in Vietnam building a website and other internal tools for a social enterprise incubator and advocacy group (2013).
- Designed web and mobile applications for relief organizations to record and track locations of homeless individuals, facilitating the delivery of aid to over 1,000 individuals for one organization in Seattle (2012).
- Led a remote team of 9 developers in Vietnam to build a video-based sports education website for young athletes, as a part-time project management contractor executing a 2-year, \$500K roadmap (2010-2011).

## EDUCATION

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### UNIVERSITY OF CALIFORNIA BERKELEY

School of Information (I School), Master of Information Management and Systems (MIMS), GPA: 3.90  
Recipient of merit-based School of Information fellowship

Berkeley, CA

Aug 2013 – May 2015

### UNIVERSITY OF MARYLAND COLLEGE PARK

B.S. Mathematics, B.S. Finance, GPA: 3.90, Cum Laude, Phi Beta Kappa

College Park, MD

Aug 2005 – May 2009

## SKILLS AND ACHIEVEMENTS

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- **Tools:** Software (Python, Java, Android SDK, Javascript, D3, Silverlight, Flask, Django, Git, Mercurial), Data (SQL, Pandas, ETL, Tableau, Excel), Design (Adobe Photoshop, Illustrator, Sketch, Origami, Balsamiq), Research (usability testing, survey design, card sorting)
- **Awards:** 1<sup>st</sup> prize winner of James R. Chen Award for best master’s final project (2015)
- **Languages:** Fluent in English and French (dual-citizen of the United States and France), proficient in Spanish
- **Publication:** Meyers, T., Stambouli, A., McClure, K., Brod, D. (2012) Risk Assessment of Positive Train Control by Using Simulation of Rare Events. *Transportation Research Record*, 2289, 34-41