



# GEORGE HAYWARD, Esq.

## Full Stack Data Scientist & Attorney

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## EXPERIENCE

### Hayward Data Science

New York, NY

Full Stack Data Scientist & Founder

2019 - present

- Built advanced churn/conversion prediction system for acquired ML startup (see client [Letter of Reference](#)).
- [Launched Sound Recipe iOS App](#) to [back up](#) Spotify playlists; [masterminded](#) all code, design, law, & marketing.
- Created Python script for Shopify store to personalize product recommendations based on customer interests.
- Wrote [Python ETL script](#) to detect misleading news, scraped Drudge Report daily for 4+ yrs. (97% uptime).
- Selected as a Mentor on both [Peak Mentors](#) and [SharpestMinds](#); commended for “transformational advice.”

### Facebook, Messenger

New York, NY

Senior Data Scientist, Product Analytics

2019 - 2022

- Promoted to Senior Data Scientist in 1 year, demonstrating exceptional performance.
- Published “Automate a Python Script at Facebook.” Praised as: “a foundation for \*\*all Python engineers at Meta.\*\*” Added to “Python @ FB” training docs. Inspired Meta-wide solution, “*Bento Scheduled Notebooks*.”
- Upheld highest user data, legal, and ethical standards at all times. Read more [here](#) and [here](#).
- Developed first-of-its-kind user perception survey. Led power analysis and ran statistical analysis of results.
- Created novel in-production ML anomaly detection system, “*Battery Beloved*,” saving 100’s of eng. hours.
- Created disk pressure threshold metric, *Weeks Till Full* (“WTF”), for all of Instagram/Messenger/Facebook.
- Directed 20+ person team in 2020 Facebook Hack-a-thon on racial equality making [PoliceReformTracker.com](#).

### Google, Area120, Tailor (Fashion Tech Startup)

San Francisco, CA

Data Scientist (contract)

2018 - 2019

- Built team’s first predictive model for customer lifetime value. Analyzed 200k+ users via log. regressions & lin. optimizations in R & Google’s Learn. Powerhouse; automated GoogleSQL scripts to report & dashboard it.
- Automated hourly order priority score ranking orders on revenue, user status, and time since placement.
- Developed daily email e-commerce report updating team on purchase metrics and created tracking dashboard.
- Ran user first-purchase analysis finding that 80% of users, if they purchased, did so in their first 4 days in app.
- Wrote SQL queries tracking and analyzing Tailor purchase OKRs and KPIs.

### Morgan Stanley

New York, NY

Investment Banking Analyst, Public Finance

2011 - 2013

- Researched and produced several rating agency credit presentations and electronic investor roadshows.
- Created interest rate databases for my team to access data with SQL queries instead of less-efficient Vlookups.
- Provided quantitative analysis and execution support on the following debt issuances and restructurings:
  - \$1.32 bn, NJ Trans. Trust Fund Auth. (Nov. 2011); \$120 mm, City of Nashville, TN (Jan. 2012); \$443 mm, DC Water & Sewer Auth. (Mar. 2012); \$847 mm, IL Met. Pier & Expo Auth. (June 2012).
- Provided credit and interest rate analysis and quantitative support on the following corporate debt issuances:
  - \$94 mm, US Steel Corp. (Aug. 2012); \$250 mm, Alcoa Inc. (Aug. 2012); \$224 mm, Con Edison (Nov. 2012); \$51 mm, ArcelorMittal (Nov. 2012); \$99.7 mm, Entergy AR (Jan. 2013).

## SKILLS & COMMUNICATION

- **Talks:** [Sermon](#), [Motivation](#), [Hold The Line](#), [Talk to Em](#), [Good News](#), [Not By Adversity](#), [Towards Data Science](#).
- **Skills:** Swift, SQL ([Ranked #1](#)), Python, R, ML, XGBoost, ETL, AWS Lambda, Google Cloud, Westlaw, Excel.

## INTERESTS

Chess, Gershwin, Notorious B.I.G., [J. Dilla](#), Astrophysics, Fried chicken, Oratory, Stand-up, SQL, Running, Jazz, Giraffes.

## EDUCATION

Stanford University, JD/MBA, *Stanford Law Review*, Admitted to CA State Bar and NY State Bar

2014 - 2018

Harvard College, B.A. in Government, *Black Students Association Political Action Chair*

2007 - 2011

Phillips Exeter Academy, High Honors, *Full Scholarship*; President, *Afro-Latino Exonian Society*

2004 - 2007