GEORGE HAYWARD, Esq.

Full Stack Data Scientist & Attorney
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LinkedIn • HackerRank • Github • Stack Overflow

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 in Comedy, *Stanford Law Review, Admitted to CA State Bar and NY State Bar*		*2018*
Harvard College, B.A. in Government, *Black Students Association Political Action Chair*		*2011*
Phillips Exeter Academy, High Honors, *Full Academic Scholarship; President of Afro-Latino Exonian Society*		*2007*