



GEORGE J.J.T.A. HAYWARD, Optimist

george@hayward.fyi • [LinkedIn](#) • [HackerRank](#) • [Github](#) • [Tableau](#) • [Law](#) • [Finance](#) • [Stand-Up](#)

Data Scientist - 10 yrs. experience & training. Impact at Meta & Google (SQL/Python/R/ML). Skilled orator. Mom worked as a bus monitor; Dad was disabled. They taught optimism, work ethic, & creativity.

EXPERIENCE

Sound Recipe (soundrecipe.io)

New York, NY

Founder, CEO, & CTO

2022-present

- Wrote all data scripts and automation design to export your public Spotify playlist to a beautiful spreadsheet.

Meta, Messenger

New York, NY

Senior Data Scientist, Product Analytics

2019 - 2022

- Created first-of-its-kind in-production ML anomaly detection system, “Battery Beloved.” Led project in Meta’s Machine Learning Accelerator tracking battery drain for Android Messenger users. Published internal Wiki, “Step-By-Step Guide to In-Production Machine Learning Model: Battery Beloved, as example (w/ XGBoost).”
- Published “Automate a Python Script at Facebook & More: A Visual Guide” internal Wiki, providing “a foundation for **all Python engineers at Meta.**” Added to official “Python @ FB” training documentation. Reaction to this Wiki catalyzed creation of a Meta-wide automation solution, “Bento Scheduled Notebooks.”
- Created new disk pressure metric, *Weeks Till Full* (“WTF”) for all users of Instagram, Messenger, & Facebook App. Developed Orange/Yellow/Red zones for disk pressure as Meta builds end-to-end messaging encryption. Named data science owner for cross-functional team & the product manager’s “go-to” data scientist.
- Developed first-of-its-kind Performance, Reliability, and Efficiency Quality user survey to connect perception to ‘under-the-hood’ app metrics, led power analysis, control flow, language editing, and won initial approval.
- Performed “Full Outer Join” stand-up set in virtual Horizon room (Oculus) showcasing metaverse capabilities.
- Coached candidates through complex Meta data science interview process with a focus on increasing diversity.
- Led development, testing, & operationalization of new topline battery efficiency metric for 1.2 billion Android users tied directly to user experience via session-retention analysis. Validated session data against user perception via an international survey. Developed Red/Yellow/Green drain levels through statistical analysis.
- Led text-based NLP analysis of 1- & 2-star Messenger reviews in Apple’s App Store & Google’s Play Store.
- Provided statistical analysis in R unblocking an entire engineering team by sizing (95% CI) the impact of an imbalance on a key metric in the A/B test. This enabled the team to ship the product to 165 million people.
- Directed 20+ person team in 2020 Facebook Hack-a-thon on racial equality making [PoliceReformTracker.com](https://police-reform-tracker.com).

Hayward Data Science (ghayward.github.io)

New York, NY

Data Scientist & Founder

2019 - present

- Led dispensary analysis for publicly-traded cannabis holding firm; found 7 key revenue predictors from 3.1k via backward elimination regression; predicted rev. to within \$80k via XGBoost; segmented via K-Means clustering.
- Created content-based recommendation Python script via count vectorizers for SKU tags & cosine similarity.

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

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.

Hayward Motivational Comedy, Inc.

San Francisco, CA; New York, NY; Los Angeles, CA; Tokyo, Japan

Optimist & Stand-up

2017-present

- Won 3x Harlem Nights Paid-by-the-Bell, set 42-bell record; ft. at Daily Press (NY), booked 4x at Flappers (LA).

DATA SCIENCE, COMMUNICATION SKILLS, & LEADERSHIP

- **Speeches:** [Buffalo](#), [Hold The Line](#), [Talk to Em](#), [The Good News](#), [Not By Adversity](#), [Towards Data Science](#).
- **Analysis:** SQL (BigQuery, MS SQL Serv., MySQL), Python (pandas, scikit-learn, xgboost, sqlite, numpy, scipy, altair, os, yagmail, beautifulsoup), R, Tableau, Machine Learning, ETL, Google Analytics, AWS Lambda, Excel.
- **ML Projects:** [Time Series](#), [A/B Test](#), [Clustering](#), [NLP](#), [Neural Network](#), [Regression & Classification](#), [Playlists](#).
- **HackerRank:** Python, Gold Level (★★★★★); SQL, Gold Level (★★★★★), [Ranked #1](#) on Global Leaderboard.

INTERESTS

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

EDUCATION

Codecademy, Data Science Path, (~350 hours online) Python, Machine Learning, Statistics

2019

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

2018

- Selected Courses: Optimization and Simulation Modeling; Measuring Impact in Practice; Data and Decisions

New Organizing Institute, Data Bootcamp, Political Campaign Data Management, VAN, GIS, SQL

2014

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

2011