



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

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*Data Scientist, Engineer, Attorney, Stand-Up, Minister. 10+ yrs. experience. Mother worked as a bus monitor; Father was disabled. They taught optimism, work ethic, & creativity. The Lord Always Delivers!*

## EXPERIENCE

### Sound Recipe

New York, NY

Founder, CEO, & CTO

2022 - present

- [Launched Sound Recipe iOS App](#) in Apple App Store; masterminded all code; all design; all legal; all marketing.
- Wrote all data scripts and automation design to export any public Spotify playlist to a beautiful spreadsheet.

### Meta, Messenger

New York, NY

Senior Data Scientist, Product Analytics

2019 - 2022

- Upheld highest user data, legal, and ethical standards—at all times. Read more [here](#) and [here](#).
- 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 for Meta’s end-to-end messaging encryption.
- 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.
- 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](#).

### Hayward Data Science

New York, NY

Senior Data Scientist & Founder

2019 - present

- Built advanced churn/conversion prediction system for acquired ML startup (see [Letter of Reference](#)).
- Selected as Mentor on [SharpestMinds](#); commended for “transformational advice” & “going above and beyond.”
- Wrote [Drudgify Python ETL script](#) which has scraped the Drudge Report daily for 4+ years (97% uptime).
- Led dispensary analysis for publicly-traded cannabis holding firm; found 7 key revenue predictors out of 3100.
- 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; automated GoogleSQL scripts to report it.

### Hayward Law

New York, NY

Attorney

2022 - present

- Represented buyer *pro bono* in \$200k transaction to keep Brooklyn bar open—saving 13 jobs! More on it [here](#).

### Hayward Motivational Comedy

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

Stand-up

2017 - present

- Completed [7-city “Faith is Hard doubt is easy”](#) tour; won 4x Harlem Nights Paid-by-the-Bell, set 42-bell record.

## SKILLS & LEADERSHIP

- **Fam:** [Need of Motivation](#), [Hold The Line](#), [Talk to Em](#), [Good News](#), [Not By Adversity](#), [Towards Data Science](#).
- **Skills:** Swift, SQL, R, Python, ML, XGBoost, ETL, AWS Lambda, Google Cloud, Photoshop, Premier, 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

London App Brewery, Dr. Angela Yu, iOS & Swift, Complete Development Bootcamp (~500 hours)	2023
Codecademy, Data Science Path, (~350 hours) Python, Machine Learning, Statistics	2019
Stanford University, JD/MBA in Comedy, Stanford Law Review, Admitted to CA State Bar and NY State Bar	2018
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
Phillips Exeter Academy, High Honors, Full Academic Scholarship; President of Afro-Latino Exonian Society	2007