

# Rebecca Wright

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I come from a professional background where “almost” was not synonymous with “complete”, and missed deadlines were simply never an option. Over the past 10 years, I have honed my ability to think on my feet, and enjoy transforming situations where one must “drink from the firehouse” into opportunities to flex my uniquely creative problem-solving skills.

As a solutions-focused engineer, I have experience in applying these problem-solving techniques in the creation and implementation of data-driven production tools, and client-solutions, from end-to-end. Diverse technical training in the areas of full-stack development and data science, along with project management experience, enables me to provide meaningful business contributions in unique and aberrant ways.

## Technical Skills

**Programming Languages:** Python, C++, SQL, Java, JavaScript, Typescript, PHP, CSS, HTML

**Relational Databases and Admin UI:** MySQL, PostgreSQL, pgAdmin, phpMyAdmin, Oracle

**Data Skills:** Data Analysis, Data Visualization, Data Cleaning, Web Scraping, Supervised and Unsupervised Machine Learning (ML), Natural Language Processing, Image Classification, Relational Databases, Tableau, Excel

## Professional Experience

Fraud Data Analyst Oct 2021 - June 2022  
ID.me McLean, VA

- Identified an unfilled business need within the company, and stepped forward to create client-solutions which combined automation and optimization of existing infrastructure with newly customized products to both increase employee speed/efficiency and decrease employee frustrations on a user-level. These projects, while outside the scope of my original job title, proved the most impactful to the business, and became my primary focus.
  - Specialized in end-to-end development of internal fraud investigator support tools within Palantir Foundry platform using Python, PySpark, SQL, Typescript and Java.
  - Worked directly with the fraud investigations team to alleviate pain-points within their SOPs.
  - Designed and implemented an automated signal engine system, including: software architecture, relational database design, object-oriented back-end, logical signal identification pipeline, and front-end UI.
  - Assisted in the automation of processes that were used to increase the speed and efficiency of multiple teams across the company. These teams encompassed fraud investigations, legal investigations, customer service management, member support services and more.
- Performed comprehensive ROI analyses on existing integrated vendor products to help the business prioritize vendor viability. Formalized personal ROI analysis process into a standardized reporting procedure complete with instructional guide for wider departmental use.
- Worked to bridge the communication gap between our more technically-minded team members and our non-technical stakeholders. Presented at a company-wide informational panel to convey an introductory overview as to “What is Machine Learning?” to our non-technical stakeholders.

Data Science Immersive Student Dec 2020 - March 2021  
General Assembly New York, NY

- Followed 500+ hours machine learning curriculum and built supervised and unsupervised machine learning models
- Was challenged to create five projects using various machine learning models in a time-limited manner

Data Analytics Intensive Student Sept 2020 - Oct 2020  
General Assembly New York, NY

- Followed 40+ hours curriculum in the implementation of data wrangling, cleaning and management techniques
- Worked in Microsoft Excel and Tableau platforms for data visualization, and MySQL relational database services

Inventory Specialist and Database Manager June 2019 - Aug 2020  
Bundles of Joy Eastchester, NY

- Provided physical and digital inventory ingestion and Microsoft Excel services as a volunteer for 501c3 org
- Cataloged multiple corporate donation actions where product total values were ~\$500k
- Provided summary reporting documents to aid in the targeted redistributing of child-focused necessities

## Additional Engineering and Data Projects

### TRKR App: Lead Data Scientist and Product Owner

- Integrated multiple Google Search APIs with SerpAPI wrappers to deliver job listings and details client-side
- Created an NLP model to identify points of similarity between various job description texts
- Generated product flow and data ingestion flow documentation diagrams
- Organized priority feature development and development schedules for SaaS product
- Led a team of seven members in one month sprint

### Labor Log / Hour Tracking Application: Full-Stack Developer

- Designed a multi-table RDB in MySQL to manage *Job*, *Client*, *User* and *Labor\_Log* data
- Constructed Java class to handle database connections and safeguard against SQL injection
- Structured front-end architecture in Java with the JavaFX library to handle GUI implementation
- Developed as a solo project over one month

### TURNIP: Backend Developer and Project Manager

- Designed a multi-table RDB in MySQL to manage *User*, *Event* and *Usage* object data
- Implemented backend-database connections using PHP scripts and phpMyAdmin
- Assisted in frontend application structuring using HTML and Javascript languages
- Collaborated with two other engineers over three week sprint

### Predicting Myers-Briggs Personality Types: Data Scientist

- Created a classification algorithm to predict personality types from Twitter postings
- Created extensive custom corpus for stopword collection extraction
- Combined NLP with Vader sentiment analysis and TF-IDF within a Keras RNN model for binary classification predictions within four-sets of pair personality traits
- Highest improvement in the accuracy was between traits F vs T: increased from 54% to 85%
- Developed as a solo project over two week sprint

### Evaluating STAR rating calculations in Washington DC Public Schools: Data Engineer and Data Analyst

- Sourced data from 20+ raw data files from OpenData DC and District Columbia Public School portals
- Data wrangling and cleaning done through Python and Microsoft Excel
- Executed exploratory data analysis and created analytics visualizations using Python and Tableau
- Collaborated with two other data scientists to develop this project over one week sprint

### Binary Classification of Subreddits: Data Scientist

#### Natural Language Processing Binary Classification for Supernatural vs The Truth is Here Subreddits

- Created a binary classification algorithm with NLP to predict between Supernatural vs The Truth is Here Subreddits
- Used PushShift API to scrape */r/Supernatural/*, */r/Thetruthishere/* subreddit posts
- Used LogisticRegression, MultinomialNB, and BaggingClassifier to create Natural Language Processing Models
- A 96.5% accuracy was achieved using LogisticRegression paired with a TF-IDF Vectorizer

## Prior-Industry Experience

### Specialty Fabrication Artist and Project Coordinator

2011 - 2018

Theme Parks, Broadway Theatricals and more ...

New York and Los Angeles

#### Disney theme parks project highlights:

- *Creating silicone skins for animatronic robots seen in various rides and attractions.*
- *Transforming over 150 plastic picnic tables into realistic looking wood dining sets.*
- *Plaited Rapunzel hair into a braid longer than 100' for a festival float.*
- *Outfitted an entire squadron of Star Wars characters in full Galactic armor.*

#### Broadway production highlights:

- *Avenue Q*
- *Chaplin*
- *Cinderella*
- *Kinky Boots*
- *Lucky Guy*
- *Radio City Rockettes*

#### Additional project highlights:

- *Super Bowl Commercial - Carvana*
- *Victoria Secret Fashion Show*
- *Washington Nationals MLB Mascot*

## Education

Data Science Immersive Advanced Certificate | General Assembly

Grad year: 2021

Associate of Science in Computer Science | SUNY Westchester Community College

Grad year: 2020

Associate of Science in Liberal Science (Mathematics) | SUNY Westchester Community College

Grad year: 2020

Associate of Specialized Business in Special Effects Makeup Design | Douglas Education Center

Grad year: 2010

Bachelor of Arts in Liberal Studies (Visual Arts) | SUNY Purchase College

Grad year: 2009