

# Jeffrey Tsang

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## EDUCATION

### Cornell University | Ithaca, NY

Dec 2019

Master of Professional Studies in Information Science (GPA: 4.0/4.0)

### Cornell University | Ithaca, NY

May 2019

Bachelor of Science in Information Science | conc. in Data Science and Interactive Tech (GPA: 3.79/4.0)

**Honors:** *magna cum laude*

**Activities:** Co-President of Information Science Student Association

Teaching Assistant: Intro to Data Science • Data-Driven Web Applications

**Relevant Coursework:** Python • Object-Oriented Programming & Data Structures (Java) • Data Science • Linear Algebra • Language and Information (NLP & IR) • Web Programming (HTML, CSS, JavaScript, PHP) • Probability & Statistics • HCI • Software Dev Studio (Vue.js) • Data-Driven Web Applications • Machine Learning • Software Engineering • Statistical Learning

## Skills

Python • R • SQL (PostgreSQL, MySQL) • Java • HTML • CSS • JavaScript • D3.js • Vue.js • PHP • Git

## PROFESSIONAL EXPERIENCE

### DataDay Design | *Co-Founder*

Jun 2019 – Present

- Founded digital marketing agency that develops integrated digital solutions and strategy for small businesses
- Design and develop responsive WordPress websites
- Configure SEO and Google Analytics to improve customer conversion rates for clients

### Huge, Brooklyn, NY | *Data Science Intern*

Feb 2019 – Aug 2019

- Designed and built automated R Shiny NLP application that analyzed app reviews utilizing Keras API, leading to improved customer experience insights
- Developed platform feature that generated customer insight reports for clients and internal teams with analysis and visualizations from neural network model results

### Regeneron Pharmaceuticals, Tarrytown, NY | *Clinical Informatics Intern*

May 2018 – Aug 2018

- Created an interactive data visualization tool using JavaScript, D3.js, HTML and CSS that utilizes network graphs to visualize and analyze electronic health record data, quantifying the relationships between genes and diseases

### Sapience Therapeutics, Mamaroneck, NY | *Data Science Intern*

Jun 2017 – Jan 2018

- Utilized Python/Jupyter notebook to analyze gene expression datasets and patterns in cancer gene expression levels
- Generated data visualizations of gene expression data to characterize the genetic profile of select cancers

### Mount Sinai Hospital, New York, NY | *Clinical Research Database Intern*

Jun 2017 – Aug 2017

- Analyzed cancer patient cohorts from EPIC database to investigate the reliability of PSA, a prostate cancer biomarker
- Managed QA database projects to maintain accuracy of patient records

## PROJECTS

### Customizable Task Tracking App

Fall 2018

- Designed and developed a customizable task/expense tracking progressive web application using Vue.js framework
- Conducted user interviews and designed mid-fidelity prototypes

### Health Services Recommendation App

Spring 2018

- Developed and deployed web application using Django framework that recommends health services for a queried symptom based on geographic location using Yelp reviews
- Implemented recommendation system using NLP/IR techniques such as cosine similarity and LDA topic modeling to classify and retrieve relevant reviews

### Undergraduate Research Assistant | *Social Dynamics Lab*

Sep 2018 – Dec 2018

- Organized and stored Reddit data into Postgres database using SQL and Python in order to apply neural networks on Reddit mental health subreddit data, classifying a Reddit post's presentation of psychiatric conditions
- Used Python and Zillow API to match voter registration records with geotagged Twitter messages in order to analyze sociodemographic characteristics and income homophily of Twitter users