Jeffrey Tsang

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EDUCATION

Cornell University, Graduate School | Ithaca, NY   **Dec 2019**
Master of Professional Studies in Information Science (GPA: 4.0/4.0)

Cornell University, College of Agriculture and Life Sciences | 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**: President of Information Science Student Association
Teaching Assistant: Intro to Data Science • Data-Driven Web Applications

SKILLS

Python • R • JavaScript • TypeScript • D3.js • Angular • Vue.js • Java • SQL • HTML • CSS • PHP

PROFESSIONAL EXPERIENCE

Vanguard, Philadelphia, PA | *Software Engineer*   **Aug 2020 – Present**
- Led Angular/Typescript front end development of multi-factor OOB authentication for international phone numbers on institutional logon portal that expanded user base by 25 enterprise clients representing billions of dollars in assets
- Enhanced micro-services backend using Java Spring Framework deployed on AWS to migrate 20,000 enterprise users to a unified institutional logon portal
- Implemented responsive mobile/tablet logon experience across multiple Angular web applications, serving business requirement for 25,000 enterprise users representing over $1 trillion in assets under management
- Led initiative to improve debugging and maintenance of web applications/services by integrating Honeycomb, a distributed tracing debugging tool
- Interfaced with business and design teams to translate user requirements into technical solutions, improving cross functional collaboration by developing new user testing processes

DataDay Design, New York, NY | *Co-Founder*   **Jun 2019 – Feb 2020**
- Co-founded digital agency that develops integrated marketing solutions and strategy to SMEs
- Developed responsive WordPress websites, configured SEO and Google Analytics to improve client's digital brand

Huge, Brooklyn, NY | *Data Science Intern*   **Feb 2019 – Aug 2019**
- Designed and built interactive R Shiny NLP analytics dashboard to analyze thousands of mobile app reviews using a neural network model, generating customer insight pdf reports for stakeholders
- Developed neural network model using Python and Keras TensorFlow API to classify mobile app reviews

Regeneron Pharmaceuticals, Tarrytown, NY | *Clinical Informatics Intern*   **May 2018 – Aug 2018**
- Created an interactive data visualization tool using JavaScript, D3.js, HTML and CSS to analyze electronic health record data and characterize the relationships between genes and diseases

Sapience Therapeutics, Harrison, NY | *Data Science Intern*   **Jun 2017 – Jan 2018**
- Utilized Python/Jupyter notebook to analyze cancer gene expression RNA-seq datasets by generating data visualizations in Matplotlib of gene expression data to characterize the genetic profile of select cancers

PROJECTS

Health Services Recommendation App
- Designed and developed Flask web application that recommends health services using NLP/IR techniques for a queried symptom based on geographic location using Yelp reviews
- Implemented recommendation system using cosine similarity, sentiment analysis and LDA topic modeling to classify and retrieve relevant reviews

Sentiment Over Time: Characterizing how an Artist's Music Changes During their Career
- Analyzed song lyrics from a music artist's discography using Python and Spotify/Genius APIs through text mining techniques such as sentiment analysis and KL divergence, quantifying relationship between an artist's most popular Spotify songs and overall sentiment of the song

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