

Cara (Yuhui) Dai

PROJECTS

New York Times, Cornell Tech Product Studio Sept 2017—now

- Developing a mobile app to help NYT to attract new subscribers by gamifying news reading experience
- Implementing a mobile application to catalog, recommend content, enable social interaction and create personalized experience for NYT subscribers using in-house recommendation algorithm, **Node.js**, **MongoDB** and **React Native**

WeMove mobile application Oct 2017—now

- Implemented a mobile app with **React Native**, **MongoDB**, and **Node.js** that connects available drivers and users who need to moving service, using **Google Geo API** and **GPS** identify location and **Heroku** to host the database
- Created a matching algorithm that matches drivers and users based on availability, proposed compensation, distance, and required hours, in addition to the feature that allows drivers to accept their desired jobs.

Simple full-stack receipt system Sept—Oct 2017

- Built back-end RESTful API and database with **Java** and **Jooq**, and front-end application with **JavaScript** and **Css**
- Used Google Vision API to automatically extract text information and recommend content from user input photos

Capstone Research in Business Analytics, independent researcher June 2016—May 2017

Topic: Whether the sentiment value of Twitter users' real time tweets can forecast consumer-facing and non-consumer-facing companies' stock performances.

- Designed, tested and ran **Python**, **Shell** scripts to acquire real time data via Twitter API and Microsoft API
- Automated and remotely monitored the 24/7 data acquisition programs on a research computer for 90 days
- Conducted statistical analysis on empirical variables with **Stata**, **R** and validated Efficient Market Hypothesis

U.S. Corporate Tax Rate, [full description](#) Oct 2015

- Visualized U.S. industry tax rate of both industry average and successful firms with **d3** and **JQuery**

WORK EXPERIENCE

NYU Abu Dhabi Design Lab, UI/HCI Research Assistant | Abu Dhabi, UAE May 2017—July 2017

- Built 12 interfaces to validate uncertainty visual techniques of random-generated data in **d3** and **Angularjs**
- Utilized non-parametric estimation (e.g.: kernel density estimation) to approximate user-specified, parametric probability density distribution, and created interactive UI to visualize the differences (aka: uncertainty)

Idealist, Product Engineer | New York, USA Jan 2016—August 2016

- Designed a 13-user-interface, 5-functionality web-extension prototype, which shows relevant volunteering opportunities based on topics of the articles users are currently browsing, using **Css**, **JavaScript**, **jQuery** and **Ajax** for API processing
- Developed a 3-phase product rollout plan and hosted a presentation on product prototype for 11 partner NGOs

EDUCATION

Cornell Tech at Cornell University, NYC, USA May 2019

MS in *Information System in Connective Media & Applied Information Science*

Courses: Applied Machine Learning, Advanced Startup System Design and Engineering GPA: 4.00/4.00

New York University-Abu Dhabi, Abu Dhabi, UAE May 2017

Magna Cum Laude in *Economics* with *Finance* specialization

Minors in *Computer Science* and *Applied Mathematics*

Courses: Algorithm, Data Structure, Software Engineering, Web Development with APIs GPA: 3.96/4.00

SKILLS

- **Programming skills:** Java, Python, JavaScript, Html, Css, Sass, SQL and Stata
- **Framework & Tools:** RESTful, Angularjs, d3, React Native, Git, Docker, AWS EC2/S3, Scikit-learn, Jooq, Unix

Personal

- **Leadership:** President at Consulting Club, External Outreach Director at Entrepreneurial Society, Active participant at Women in STEM (NYUAD) and Women in Technology and Entrepreneurship (Cornell Tech)
- **Volunteer:** Main Street Theater and Dance Alliance front-end consultant, Let's Code Roosevelt Island
- **Interests:** Detective Story, DIY décor, Marvel, Fashion, Roller Blading, Travel