

# Cara (Yuhui) Dai

## PROJECTS

### SaladNews web application

April 2018—May 2018

- Built a web app to filter news on the same topics by user specifications to serve articles that most fit users' interests
- Implemented an algorithm to analyze the quality and fitness of articles, processed information from Google News API and powered web server with **Python**, and styled and rendered front-end with **Javascript, Css and Html5**

### A R e a, Cornell Tech Specialization Project

Dec 2017—now

- Developing an app to promote interactive experience among users, between users and their working space via AR
- Building an information gathering website to acquire, store users' information and provide API end points for the mobile front end, using **Node.js, MongoDB with Javascript, Css and Html5**

### New York Times, Cornell Tech Product Studio

Sept 2017—Dec 2017

- Developed a mobile app to help NYT to attract new subscribers by gamifying news reading experience
- Implemented 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.

### 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

## WORK EXPERIENCE

### Google Inc, Software Engineering Intern | Mountain View, CA, USA

May 2018—now

- Working with YouTube Video Ads team to visualize monetization data with **Typescript, d3** and **Angular2** framework
- Building a dynamic dashboard with App Framework in **Java**, serving both Zurich and U.S. YouTube Video Ads teams

### 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)

## 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: 3.86/4.00

### 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, Typescript, Html5, Css, Sass, SQL and MongoDB
- **Framework & Tools:** RESTful, Angular, d3, React Native, Git, Docker, AWS EC2/S3, Scikit-learn, Jooq, Unix

## Personal

- **Leadership:** President at Consulting Club, Active participant at Women in Technology and Entrepreneurship
- **Volunteer:** Main Street Theater and Dance Alliance front-end consultant, Let's Code Roosevelt Island, Google Serve
- **Interests:** Detective Story, DIY décor, Marvel, Fashion, Roller Blading, Travel