

Cara (Yuhui) Dai

WORK EXPERIENCE

Google Inc, Software Engineering Intern | Mountain View, CA, USA May 2018—now

- Working with Zurich and US YouTube Video Ads team to visualize data with **Typescript**, **d3** and **Angular2**
- Building a web **Java** server with App Framework, interacting with Google **F1 Database** and parsing **ProtoBuffer** data

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 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: 3.886/4.00

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

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

SKILLS

- **Programming skills:** Java, Python, JavaScript, Typescript, Html5, Css, Sass, SQL and MongoDB
- **Framework & Tools:** RESTful, Angular2, d3, React Native, Git, Docker, AWS EC2/S3, Scikit-learn, Jooq, Unix

Personal

- **Leadership:** External Outreach at NYU WeSTEM, Active participant at Women in Technology and Entrepreneurship
- **Volunteer:** Main Street Theater and Dance Alliance front-end consultant, Google Serve
- **Interests:** Detective Story, DIY décor, Marvel, Fashion, Roller Blading, Travel