

Chi-An Wang

35 WEST 33RD ST., APT. 14E
mw10104587@gmail.com
917-972-9296

@WangChiAn
<http://ca-wang.com>
<https://github.com/mw10104587>

Education

Dual Degree M.S. in Computer Science and Journalism, New York, NY *Aug.2015 - Expected May 2017*

- Coursework: Analysis of Algorithm, Advanced Database System, Advanced Software Engineering, Natural Language Processing, Machine Learning, Data Journalism, Reporting
- GPA: 3.61

B.S., Electrical Engineering in National Taiwan University, Taipei, Taiwan *Sep.2009 - June 2013*

- Concentration: Networking and Multimedia Analysis, Mobile Phone and Web Programming
- Exchange student in École Polytechnique Feminum, Paris, France

Work Experience

Things Team Summer Intern, Quartz, New York City *Jun.2016 - Apr. 2016*

- To quickly develop users for a prototype product for Rio Olympics, I built a responsive embeddable form and tested locally with docker. It helped collected more than 7,000 reader emails in 2 days.
- Cleaned, analyzed and plotted 17 years of government diplomatic gifts data with regex and Python pandas
- Covered several stories including a Riot Games backbone piece using traceroute and geolocating IP address

Freelance Front-end Developer, New York City, New York *Oct.2015 - Jan.2016*

- Built a bilingual e-commerce site by working remotely with a designer and content manager in 4 months
- Implemented shopping cart, used hash to speed up more than 50% product information retrieval time
- Used thumbnails to speed up rendering, used react.js to improve code reusability - <http://www.glfa.com.hk>

Front-end Developer & Data Engineer, United Daily News, New Taipei County *Oct.2014 - May 2015*

- Built interactive web apps for data stories including analysis of 126 politicians' Facebook fans pages
- Used d3.js to visualize data, and built responsive web apps that support cross-browser compatibility
- The first data engineer in UDN, established the Standard Operating Procedure for data-driven story project

iOS Software Developer Internship, Fanxin.tv, Taipei, Taiwan *July 2012 - Dec.2012*

- Developed iPad app alone that enables Facebook sign-in and calendar exporting
- Added asynchronous image loading into an opensource package for a Flipboard-like animation

Selected Projects

New York City Philanthropy Backscratching - <http://bit.ly/philanthropy-NY>

- Parsed philanthropy data from 20 cultural institutions' annual report and identified "Cross Giving" activities
- Built weighted network graphs data by identifying repeated board members according to its affiliation
- Designed and Visualized graph data by using Gephi and d3.js to express the "Cross giving" event

Fatal Traffic Accident Data Project - <http://bit.ly/fatal-traffic>

- Our newsroom was requested to produce a story based on a first-hand raw dataset about traffic accident
- I built a web based geolocating tool that helped reporters pinpoint 1,770 unformatted address into longitude and latitude. The tool supported session saving and distance measuring on the map.
- Prototyped news app with d3.js and used Leaflet.js to render clustered points on custom-styled GMap

LeakMotion – an iPhone jogging app, Yahoo Hackathon[1]

- A prototype app that finds unique jogging path similar to user drawn pattern
- Built a tool to save street structures as network graph by using Gmap API, firebase and Heroku in 4 hours

Block Composer - an interactive iPhone app for kids to learn music

- Developed Tangible User Interface hardware, "bloc", with iron nails and Aluminum foil
- Developed an algorithm that reduced 22% of multitouch error caused by hardware underweight defect
- Implemented "drag to play music notes" function by tracking user's pan gesture - <http://bit.ly/bloc-composer>

Other Accomplishments and Awards

Geffen Scholarship Fund for excellence in academic and overall achievement

Yahoo Hack Taiwan 2013 Bronze Medal Award [1]

Columbia University Data + Journalism Hackathon, Best Story Award

- Cleaned and visualized Federal Election Commission transaction data(2G) in 24 hours

Wenz Weekly, Founder

- A weekly publication that focused on closing the gap of newspaper and online news, crowdfunded all budget

Skills

Programming Languages: Expert - Python, JavaScript, CSS3, HTML5
Fluent - C, SQL, Matlab

Programming Libraries: d3.js, react.js, JQuery, Bootstrap, Scrapy, BeautifulSoup, numpy, sklearn
pandas, matplotlib

Others: git, gulp, Illustrator, LaTeX, DSLR, writing, Mandarin(Native), French(conversation)