

# Yusheng Ding

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## Professional Experience

### **Software Engineer - Apple Inc.**

Nov. 2019 - Present

- Data pipeline tracking resource utilization (**Python3, Airflow, Druid, MySQL, Hadoop, S3**)
- Resource management system (**Golang, Kubernetes, Docker, Python3, REST API, gRPC**)
- Alerting system for monitoring data pipeline (systems and data) based on preset events and rules
- Testing framework for monitoring resource management system API endpoints

### **Software Engineer - Freelancer & co-Founder**

Aug. 2018 - Sep. 2019

- A mobile app to post and view product deals in real time (Sole Developer)
  - Frontend: **JavaScript, React Native, Redux**
  - App backend: **Python 3, Django REST framework, MySQL, Docker, Nginx, Unicorn**
  - Deals are fetched via open API and web crawler: **Python 3, Requests, Selenium, BeautifulSoup**
- Ethereum Mobile Wallet
  - Developed **Android** side using **Java**

### **Data Engineer - Tantan Technology Ltd.**

Aug. 2017 - Aug. 2018

*Tantan is a LBS based dating app and the second most popular dating app in Chinese market*

- Built and maintained Tantan's data warehouse containing more than 120 million users' data. Migrated data from production database to data warehouse, co-designed table schemas. (**Python, Sqoop, Hadoop, Spark, Hive, PostgreSQL, Java, Airflow**)
- Implemented automation tools for monitoring and collecting system errors, transferring data from Postgres to data warehouse, etc. (**Python, Php**)
- Developed, maintained and optimized Tantan's Business Intelligent systems and migrated the old BI system (**PHP, Highcharts.js, HTML, CSS**) to the new BI system (**Python, Superset, JavaScript**).
- Maintained analytics database (Postgres) for BI. Implemented and maintained daily scripts jobs for updating data look up aggregation tables in databases. (**Python, Shell, Php, Crontab, Linux**)
- Collaborated with different teams to clarify requirements and generate data reports. Provided support for data analysis and defining key metrics. Automated a script to generate critical daily reports for enterprise decision management. (**Python, Php, PostgreSQL, Presto, Hive, Airflow, Crontab**)

### **Product Manager - Art1001 Network Technology (Beijing) Co., Ltd.**

Dec. 2016 - Aug. 2017

*Art1001 aims at utilizing Internet to provide better decoration and renovation solutions*

- Planned, designed and managed software products for Art1001 (Web, Android, iOS) including online shopping mall, Coordination system for different roles in decoration and Labor booking platform, etc.
- Collaborated with different teams and roles to manage projects process, progress and priorities
- Built and led product department including product team and UI&UX team
- Built and standardized product development process

## Other Experience

### **Translator and Proofreader (Volunteer) - Khan Academy**

Jun. 2018 - Present

### **Research Assistant - Data Science Lab, Auburn University**

Aug. 2014 - May. 2016

<http://auburn.edu/academic/engineering/dslab/>

- *RFID indoor movement research*
- *Master Thesis: A Location-Based Recommendation System Using a Hidden Markov Model*

### **Software Developer Intern - RFID Lab**

June. 2015 - Sept. 2015

Auburn University, Alabama, USA

<http://https://rfid.auburn.edu/>

## Education

### **Auburn University**

May. 2016

Master of Science in Computer Science

### **Chongqing University of Posts and Telecommunications (CQUPT)**

Jun. 2013

Bachelor of Engineering in Computer Software Engineering; Minor: English

## Auburn University

Master of Science in Computer Science; GPA: 3.7/4.0

May. 2016

## Chongqing University of Posts and Telecommunications (CQUPT)

Bachelor of Engineering in Computer Software Engineering; Minor: English;

Jun. 2013

GPA: 3.4/4.0 Ranking: top 5%

Outstanding Graduate(<6%), First class national scholarship(<3%), etc., Vice president of student union

## Skills

## Reference

Personal Page: <http://formatmemory.github.io>

GitHub: <https://github.com/FormatMemory>

LinkedIn: <https://goo.gl/PRr3pJ> OR <https://www.linkedin.com/in/yusheng-ding-7857a775>

## Projects

### 2016 Equifax Hackathon

**Monkey Bomb** (<https://github.com/FormatMemory/MonkeyBomb2>)

Feb. 2016

- *The 3rd place of 2016 Equifax Hackathon*
- Designed and implemented a web app through which user can chat with each other and view other people's public from Facebook, twitter.
- ✓ [Python, Django, Html, CSS, JavaScript, MySQL, Linux, GitHub]

### 2015 Global Urban Data fest: Smart Cities Hackathon

**IPark – Your Parking Helper** (<https://github.com/FormatMemory/Datafest-Ipark>)

Feb. 2015

- *#ALhack winner (Alabama 2<sup>nd</sup> Place, Top 30 Globally)*
- Designed and implemented a web app which helps users to discover spare parking lots. The app provides real-time information of parking occupation and navigation. It also enables users to share parking spaces.
- ✓ [Java, Play, Matlab, MongoDB, JavaScript, HTML, CSS, GitHub]

### 2013 Americas Datafest Hackathon

**Immigration Translator for Google Glass**

Nov. 2013

- Project Information Page: <http://americas.datafest.net/resources/project-list/jyjjj>
- Designed and developed a Google Glass App transcribes English voice messages and translates into other languages to show on Google Glass as well as cell phone.
- ✓ [Java, Google Glass API, Google Translate API]

## Software Engineer Intern - Findream, LLC

July. 2016 - Dec. 2016

Findream (<https://www.findream.us/>) is a startup company in technology services, consulting and provides knowledge training, web development, software development, QA test, Data Analyst, Business Consulting, Management Consulting and Coding Platform Services. Findream enable clients in China and USA to create and execute strategies for their digital transformation.

- Developed and maintained front-end and back-end of Findream website (<https://www.findream.us/>) .

- Developed customer acquisition analysis system for third party company (*collegedaily.cn*).
- Prepared training materials (slides and project demos) for software development trainings.
- Prepared weekly and monthly projects reports.
- Communicated with customers about projects requirements.

### **Translator and Proofreader (Volunteer) - Khan Academy**

*Jun. 2018 - Present*

*Remote*

Participate in Khan Academy Mandarin Translation Project. Our goal is to bring free and quality education to the world.

- Translate text from English learning materials to Simplified Chinese
- Proofread and control quality of translated learning materials

### **Research Assistant - Information Laboratory (current Data Science Lab)**

<http://auburn.edu/academic/engineering/dslab/>

*Aug. 2014 – May. 2016*

*Auburn University, Alabama, USA*

*RFID indoor movement research*

- Researched, designed and implemented a grocery store recommendation system based on Radio Frequency Identification (RFID) as well as user's movement patterns. A movement behaviors simulator was also developed to validate the recommendation system.
- Master Thesis: *A Location-Based Recommendation System Using a Hidden Markov Model*.

### **Internship - RFID Laboratory, Auburn University**

<https://rfid.auburn.edu/>

*Auburn University, Alabama, USA*

*June. 2015 – Sept. 2015*

- Collected and analyzed data to investigate the performance of large-scale RFID (Radio Frequency Identification) deployments.
- Developed tools for inventory management, data analysis which decreases 90% of data maintenance time cost.