

# Kaiwen Sun

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## WORK EXPERIENCE

### Whitepages Inc., Senior Software Engineer

Seattle, Apr. 2017 – Present

- **Full-stack development** of Whitepages webs [www.whitepages.com](http://www.whitepages.com) and [premium.whitepages.com](http://premium.whitepages.com).
- **Project examples** (*percentages of my contribution in parentheses*):
  - Led the development of a completely new website with brand new services. Still in progress. (70%)
  - Upgraded *Premium* codebase from Python2 to Python3 and upgraded Python modules (70%)
  - Refactored user account authentication mechanism of *Premium* (90%)
  - Developed a person name aliases cleaner/deduplicator (100%)
  - Designed and implemented RESTful APIs and services.
  - Built the frontend of *SmartCheck*, a webpage of person background report (60%)
  - Integrated the map system on the two Whitepages websites using Mapbox (100%)
  - Completed daily work of frontend and backend in an Agile manner
- **Hackathon project 1:** Voicepages, an Amazon Alexa skill to query addresses' and phone number owners' information (50%)
- **Hackathon project 2:** Whitepages coupon system and referral system (25%)
- **Tech skills:** Python2&3, Flask, Jinja2, Redis, VanillaJS(ES6) & jQuery, Sass, Node.js, Webpack. Have some good understanding of Flask and some widely used Flask modules (eg. flask-wtf, flask-login)

### HyperFD Ltd., Software Engineer & Co-founder <http://www.hyperfd.com>

China, June 2016 – Sept. 2016

- The only one software programmer in this start-up. One of three co-founders.
- **UAV Camera Head**
  - The program running on a Raspberry Pi controls a Sony camera, a webcam and servo motors which are loaded under a UAV
  - The captured images are processed using OpenCV in real time to automatically tracks user-selected objects
  - Based on this project, HyperFD Ltd. was formally founded and registered in Apr. 2017 in China.
- **Livestream Backhaul:** A remote monitor & control system for multiple users in LAN and WAN.
- **Tech skills:** Java, OpenCV, multithreading, Python, Raspberry Pi, some APIs controlling hardware.

## EDUCATION

### University of California, San Diego

Sept. 2015 – Mar. 2017

- M.S. in Computer Science GPA: 3.835 / 4.0

### Nanjing University

Sept. 2011 – July 2015

- B.S. in Computer Science and Technology GPA: 88.3%
- Ranking: 1/20 (National Elite Program Class, 20 students selected from 200)

### University of Waterloo

Sept. 2014 – Apr. 2015

- Exchange student in Computer Science GPA: 3.9 / 4.0
- Undergraduate Research Assistant, testing performance of revised Apache Spark

## TECH SKILLS

**Programming languages:** Python 2&3, Java, C, C++, JavaScript (ES6, jQuery)

**Others tech skills:** Flask, multithread, network, Git, HTML, Raspberry Pi, JIRA, Jenkins, Windows, Linux, macOS

## PERSONAL PROJECTS

### Online Chinese Chess

Oct. - Dec., 2018

- Built a responsive web application for multiple users to play Chinese Chess against each other online
- Backend: Python3, Flask (Jinja2, wtforms, flask-login, etc.), Redis
- Frontend: HTML, CSS, jQuery, AJAX, Bootstrap, BootBox.

### Stock Auto-trader

Dec., 2018

- Traded stocks using Robinhood API with customized and configurable trading strategies

### Distributed File System

2016

- Used self-implemented general-purpose Java RMI library for remote process communication
- Java skills include dynamic proxy, reflection, and multithreads synchronized by read/write lock

### Remote Shell Controller

2016

- Built an integration of multithread remote terminals like SSH, but has features catering my personal usage.
- Swapped client's and server's roles, so that controller can access to computers hidden behind NAT.

### Virtual Machine Management Cloud

Funded by Nanjing Univ. Innovation Program, 2014

- Led a four-member team to design and implement a VM cloud based on KVM.