Kaiwen Sun

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WORK EXPERIENCE

Amazon.com, Inc. - AWS CodeDeploy, SDE 2   **Seattle, June. 2019 – Present**
- **DevOps of AWS CodeDeploy**
- **Sample projects**
  - CodeDeploy Integration with AWS Lambda ProvisionedConcurrency
  - A few handy operational tools loved by teammates
  - Two on-going projects involving AWS CloudFormation, ELB and ECS
  - Hackathon project: Mini CodeDeploy, a serverless simplified CodeDeploy
- **Tech skills**
  - Java, Python, bash, AWS (eg. CodeDeploy, Lambda, SWF, CloudFormation, ELB, ECS, ECR)

Whitepages Inc., Senior SDE   **Seattle, Apr. 2017 – June. 2019**
- **Full-stack development** of Whitepages websites:
  - www.whitepages.com/tenant-screening, premium.whitepages.com, www.whitepages.com
- **Sample projects**
  - Led the launch and development of a completely new website www.whitepages.com/tenant-screening
  - Upgraded *Premium* codebase from Python2 to 3
  - Refactored user account authentication mechanism of *Premium*
  - Developed a person name aliases cleaner/deduplicator
  - Built the frontend of *SmartCheck*, a series of report of Whitepages background check
  - Integrated the map system on the two Whitepages websites using Mapbox
  - Completed daily work of frontend and backend in an Agile manner
  - Hackathon project 1: Voicepages, an Amazon Alexa skill doing address and phone searches.
  - Hackathon project 2: Whitepages coupon and referral system
- **Tech skills:**
  - Python2&3, Flask, Jinja2, Redis, VanillaJS(ES6) & jQuery, Sass (CSS), 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   **China, June 2016 – Sept. 2016**
- The only one software programmer. One of three co-founders of HyperFD. (*http://www.hyperfd.com*)
- **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 registerd in Apr. 2017 in China.
- **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

AWS, Java, Python 2&3, JavaScript (ES6, jQuery), bash, Flask, Jinja2, C, C++, git, Raspberry Pi

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, SQLite
- Frontend: HTML, CSS, jQuery, AJAX, BootStrap, BootBox.

Stock Auto-trader   **Dec., 2018**
- Traded stocks using Robinhood API with customized and configurable trading strategies
- Earned and lost money for me, automatically