

# Frank Jheng (鄭順一)

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## Summary

Jheng is a software developer, system administrator, and open source contributor. He follows with interest information security, DevOp, web, and software architecture.

## Skill set

- Main programming language: Python
- Secondary programming languages: Bourne shell (sh), Bash, C, C++, Go, ECMAScript

## Language

- English: Professional working proficiency (TOEIC 840/990, GEPT High-Intermediate)
- Chinese: Native or bilingual proficiency
- Taiwanese: Native or bilingual proficiency
- Japanese: Elementary proficiency

## Tool

- Version control: Git, Github
- Editor/IDE: Vim

## Maintenance

- Operating system: Arch Linux, Ubuntu, FreeBSD
- Container: Docker, Kubernetes
- Cloud: Google Cloud Platform

## Job Experience

Tagtoo, software engineer — Jan 2016 - Nov 2017

### Responsibility

- Improve the process of taking down the advertisement when customers' product been sold out to nearly real-time
- Add an auto deployment process of web frontend assets to CDN for every active project
- Reorganize the service architecture to make the data flow be unified and more easy to be traced when error happens.
- Help colleagues (engineer and non-engineer) solve problems to improve collaboration
- Build a whole picture of all services purpose, component relation, and code repository usage

### Achievement

- Save 70% cloud platform service fee
- Speed up testing on Travis CI up to 6 times faster. (90 mins to 15 mins)
- Dealing with China network to make current services work in China within 3 days (using Alibaba Cloud)
- Zero downtime database migration
- Improve the process of collecting user tracking data which uses Google App Engine running with MapReduce and saved the data into Google BigQuery up to 33% faster
- Separate services on one virtual machine to several API microservices running with Docker to avoid the single point of failure
- [Fixed the bug of travis-ci/dpl \(written in Ruby\) to make it able to deploy to Google App Engine again.](#)

### Tech Stacks

- Web framework: Django, Flask, webapp2
- Google Cloud Platform: Google App Engine (Standard + Flexible, Python), Google Container Engine, Google Compute Engine, BigQuery, CloudSQL (MySQL), Memcache, Blobstore, Datastore, Google Cloud Storage, Stackdriver
- Container: Docker, Kubernetes
- CDN: CloudFlare
- CI: Travis CI
- Scrum: Trello, Slack

**Open House official web site — September 2012 - May 2014**

Open House is an organization in NCTU that helps companies on recruiting.

## Responsibility

- Maintain Web, FTP, BBS, Mail server
- Develop new features for production websites
- Fix server issues

## Registration system (part-time) — September 2012 - January 2013

A registration system for NCTU Freshmen Coding Competition in PHP

## Responsibility

- Develop a registration system for purpose

## Activity

## Open source project

### ZDict contributor

- ZDict is a CLI dictionary framework mainly focus on any kind of online dictionary.

### LinkedIn2Md (DEPRECATED)

- Export public LinkedIn profile to Markdown format for getting pure text CV.

## Conference talk

### [July 2017 Golang Taipei] GTG25 Introduction to Grumpy

- Introduce a third-party Python package which is built by Google to make Python source code can be transformed to Golang source code (Python to Golang transpiler), compiled and executed to improve the performance at Golang Taipei Gathering #25.
  - Slide: <https://speakerdeck.com/m157q/20170718-gtg25-introduction-to-grumpy-1>

### [March 2015 SITCON] Android Repackged App Detection Platform

- Introduce my undergraduate project which made by my teammate and me. It's a platform built on an Ubuntu server. A backend for analysing if the apps from the 3rd party market places are repackaged from those on Google Play. A frontend for users to upload apk files and showing the result to users. The platform will check those uploaded apk files with the result from backend, then tell the users if the uploaded app is repackaged or not.
  - Slide: <https://speakerdeck.com/m157q/sitcon2015-android-repackaged-app-detection-system>

### [March 2014 SITCON] How I learned to build a website from bottom to up in one and a half years

- Introduce how I learned system administration (Arch Linux, QEMU, Maple BBS, SSHGuard, Logwatch, Postfix, vsftpd), building a production website (Yii, MySQL, HTML, CSS, JavaScript) and sharing the experience for letting the beginners know how to start these things.
  - Slide: <https://speakerdeck.com/m157q/sitcon2014-how-i-learned-to-build-a-website-from-bottom-to-up-in-one-and-a-half-years>

### PyCon APAC 2014 organizer

- Web team — response for PyCon APAC official web site

### Competition

#### 5th place of Golden Shield Information Security Contest (資安技能金盾獎)

- Held by Information & Communication Security Technology Center, Taiwan at Nov. 2013
- Golden Shield Information Security Contest (金盾獎) is the biggest computer security contest for students in Taiwan, hosted by Information & Communication Security Technology Center, Taiwan (財團法人資訊工業策進會, 行政院國家資通安全會報技術服務中心)

#### Award for Excellent of Taiwan Student Cluster Competition

- Held by National Center for High-Performance Computing, Taiwan at June 2015
- Our team use Scientific Linux and Intel C++ Compiler to achieve the highest score on HPL part. Technics used: InfiniBand, MPI, RDMA, OpenMP, CUDA, ...etc. Running programs: HPL, LAMMPS, Einstein Toolkit. I mainly focus on writing shell script to setup the environment, dealing with CUDA part and basic system administration.

### Education

#### National Chiao Tung University (2011 – 2015)

- Bachelor's Degree, Computer Science
- Took Information and Communication Security Credit Programme (資通安全學分學程)
- System Administration undergraduate TA (teaching assistant)
- Network Administration undergraduate TA (teaching assistant)