Wei-Chung (Victor) Hu

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QUALIFICATION SUMMARY

- Being patient in problem understanding and requirement elicitation. Good at discovering low cost, effective solution by selected tools.
- Initiated evolution of 3 key systems in the former company. Set up POS outsourcing contract and spec.
- Highly interested in building revolutionary, value-delivery social community.

SKILLSET IN THE LAST 2 YEARS

- **Languages**: Python, JavaScript **Technologies**: Django, PyTest, TravisCI, SQLite/MySQL, GitHub

EXPERIENCE

- **Freelance** New Taipei City, Taiwan
  Web Engineer *Sept 2017 - Present*
  - **Consultant**: ERP and IT/IS consultant of Lee Fong International Group, Macau
  - **Service Backend**: Working on a pre-startup project, LuckyStrike. A community to create, advertise and participate commercial lucky draw events. I was responsible for backend part and RESTful-API construction.

- **Lee Fong International Group** Macau, China
  Technical Lead/Web Engineer *Dec 2016 - Aug 2017*
  - **Web ERP**: Introduced and planned a lean Web ERP system by Django for HQ office. The system collects sales data from 6 retail POS and reports HQ managers evidence for CRM, purchasing and marketing decisions.
  - **Secure Data Storage**: Built an encrypted, secure storage system based on Python and VeraCrypt. It is used to preserve key documents and databases by distributed, SHA-256 encrypted virtual disks.
  - **E-Commerce**: Customized a new retail website using Prestashop 1.7 and MySQL to increase product visibility over 300% and enable online ordering. Organized training materials for website operating colleagues.
  - **Outsourcing**: Renewed maintenance contract of legacy POS, which was dropped for 30 months before. Set up contract and specification of next-generation POS with a new vendor.

- **Database and Software Engineering Lab.** NCKU, Tainan, Taiwan
  Ph.D. Program/Research Assistant/Web Engineer *Sept 2006 - Sept 2016*
  - **Requirement Enginnering**: Built UCFrame, a web framework to collect and elicit requirement from the crowd, with tag system and quality metrics suite designed to collage use cases.
  - **Patents and Award**: Led project SIMPLE Touch, a sketch-alive platform for kids developed by Python, OpenCV and Kivy. This project won the 3rd place in 1st ITRI/ASUS AIO competition. 3 TW invention patents, including the sketch-alive process, database design, and device design, were derived from this project (TW invention patent no.I416356, no.I423149, and no.I448999).
  - **Teaching Assistant**: Maintained SE4PP, a PyGame-based programming learning environment, which was applied in college CS101 for 10 years. Accompanied by: (1) WebHat, an assignment validation system integrating TurboGears, PyLint, Trac, and SVN to create personal working space automatically. (2) SE4PP ELO, a game strategy ranking web by ELO algorithm and prioritized simulation.
  - **Web Enginnering**: Maintainer of NCKUEE Webs and founder of NCKUEE Room Reservation System, which were developed by PHP5, Joomla CMS, MySQL.

SIDE PROJECTS

- **Django-Eel**: A Django App for HTML GUI applications, with easy Python/JavaScript interoperation. Built on top of Django and Channels Websocket. It is a porting version of Eel.
- **mmpy_bot**: A Python chatbot framework for Mattermost(MM) cloud messaging. I am a collaborator of this GitHub project in code evolution to support MM APIv4, refactoring, building test cases and resolving issues.
- **Arya**: A command-based lightweight kanban based on Python3 and Django. Arya is built for dynamic ticket layout and built-in smart bots in agile process. It's part of my long-term plan in context-aware software engineering.

EDUCATION

- Master and Ph.D. of Software Engineering, *DBSE Laboratory*, *National Cheng Kung University* Taiwan
- Bachelor of Electrical Engineering, *National Cheng Kung University*, *Taiwan*