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🎂 Birthyear: 1987

Experience

Vocational

- 03/2016 – current **Co-founder & CTO**, *AgriConnect Digital Agriculture Ltd*, Ho Chi Minh City, Viet Nam.
- Design software architecture of the automatic growing house for mushroom, vegetable, swiftlet house.
 - Main coder for the project. The software can run both on cloud server and embedded computer like BeagleBone.
 - Develop company's website agriconnect.vn.
 - Setup CI/CD tools for the projects, using Fabric, Ansible, GitLab CI, Docker.
 - Design a system to manage scattered local servers with WireGuard, an innovative (at the time) VPN software.
 - Prebuild open source softwares for ARM platform, hosting at a self-maintained repository, to make it easy to deploy softwares to ARM boards.
 - Develop embedded software for sensor nodes, which use Arduino, ESP8266, ESP32.
 - Contribute code to various open source software projects.
 - Talk at FOSSASIA Summit, OpenTech Summit, to share experience in developing software for automatic mushroom farm.
- 01/2019 – **Senior Software Developer**, *Sunshine Tech*, Ho Chi Minh City, Viet Nam.
07/2020
- Design architecture, select technologies and implementation approach for the company software projects.
 - Design database, API, write code for backend part.
 - Introduce professional way of software development to the company: writing unittest, writing documentation, creating device simulator tools, breaking code apart to libraries.
 - Build DevOps process, setup CI/CD, testing automation with Docker.
 - Train teammates with new technologies, new tools.
 - Start some Free and Open Source projects under company name.
- 05/2016 – present **Member**, *FOSSASIA*, *an organization about open technology*.
- Student mentor for Google Summer of Code, 2016, 2017, 2018.
 - Contribute to SUSI Smart Speaker project: Review code; redefine the code base, to make it stable (before I join, even the install script doesn't work); reduce installation size; make script to build OS image automatically.
 - Have some talks on behalf of FOSSASIA to introduce open source software and programming.
- 05/2013 – **Software Developer**, *EasyUni Sdn. Bhd.*, Kuala Lumpur, Malaysia.
02/2016
- Develop company-owned website (www.easyuni.com). Implement various features for the website, according to business need.
 - Lead development of Coach and Grow Program internal web platform.

- 02/2012 – **Software Developer**, *MBM International*, Can Tho, Viet Nam.
- 04/2013
- Join **OpenSC**, an open source smart card library, take part in improving OpenPGP card support.
 - Develop several modules for **OpenWrt**, a Linux-based firmware for wifi router.
 - Develop a pairs of web app + Android app.
 - Maintain customer's website (www.expats-advisory.com).
 - Talk at **GNOME Asia Summit 2012**, Hong Kong.
- 08/2010 – **Software Developer**, *FPT Software*, Ho Chi Minh City, Viet Nam.
- 01/2012
- Took part in an embedded software project about NFC software stack for NFC chipsets.
 - Wrote several facility tools (programs) to increase productivity.

Personal FOSS projects

CoBang, *QR code scanner desktop app for Linux.*

github.com/hongquan/CoBang

HddTempSafe, *Tool to read hard disk temperature from hddtemp's TCP interface.*

github.com/hongquan/HddTempSafe

VietnamProvinces, *Library to provide list of Vietnam administrative divisions (tỉnh thành, quận huyện, phường xã).*

[sunshine-tech/VietnamProvinces](https://github.com/sunshine-tech/VietnamProvinces)

Thunagen, *Google Cloud function to generate thumbnail for images in Google Storage.*

github.com/sunshine-tech/thunagen

BienSoXe, *Library to parse and validate Vietnamese vehicle place.*

github.com/sunshine-tech/BienSoXe

CurliPie, *Convert cURL command to HTTPie.*

<https://github.com/hongquan/CurliPie>

KikiAuth, *Server-free captive portal for Wifi, login with social network.*

github.com/hongquan/KikiAuth

Miscellaneous

FOSS, *Contribute bug fixes and features to a lot Free and Open Source Software projects.*

Publication

2013 **Instant Geany IDE**, *Packt Publishing Ltd.*

<https://www.packtpub.com/application-development/instant-geany-ide-instant>

Education

2004–2009 **Mechatronics**, *Ho Chi Minh City University of Technology.*

PFIEV program (Programme de Formation d'Ingénieurs d'Excellence au Vietnam).

Graduation thesis: Study on Design of 2D Ocean Wave Maker

- Collect related theories in Fluid Mechanics and differential equations describing water wave created by the wave maker.
- Create a prototy machine.

Languages

English Intermediate

Used to live in Malaysia

Computer skills

OS Linux

Embedded system, desktop and server

Programming Python, JavaScript, Lua, C, Rust

Database PostgreSQL, Redis, Google Firestore, InfluxDB

Tool Git, Ansible, Docker, WireGuard, Nginx, Systemd

Voluntary Activities

2017 – 2019 Sea turtle conservation

2007 Blood Donation

2006 Blue Summer Volunteer Campaign

Interests

Reading History, culture and programming languages

Travel

Write Blog about new techniques in software developments and Asian culture.