CHUAN-CHE YEN

Senior Software Engineer

⊙ Kaohsiung / Taipei, Taiwan

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EXPERIENCE

08/2020 - present   **Senior Software Engineer**   **Synology Inc.**

- **QuickConnect** is a service that enables remote access to NAS devices through the internet.
  - Developing features as required, identifying performance bottlenecks, security assessment and adjustment, as well as performing SRE duties.
  - Improving the use of *hole punching* technique to reduce cloud traffic usage by **3%** and enhance user experience.
  - Approximately **58k** unauthorized serial numbers, also known as *hacksyno*, have been blocked from using QuickConnect to initiate connections.
- **DDNS** enables users to access their NAS using a domain name instead of an IP address.
  - Using QuickConnect HTTP long polling to reduce IP lookups and decrease server usage by **29%**.
  - Integrate a certificate application process for Synology products that can be used in different scenarios, in conjunction with QuickConnect and Let's Encrypt.
- **ZTNA** refers to a ZTNA solution that utilizes Synology QuickConnect to improve connectivity and usability.
  - Using QuickConnect as a secure channel to initiate Zero Trust Network Access, and utilizing hole punching techniques to increase the possibility of direct connections.
  - Implement a web application using Vue as the interface to integrate PC client and QuickConnect.

02/2019 – 08/2020   **Principle Software Engineer**   **Hairdodo Inc.**

As the primary technical developer at Hairdodo, I am responsible for both front-end and back-end development, generating reports based on requirements, as well as maintaining and developing the Android app. Specifically, my responsibilities include:

- **Service and Web UI**
  - Design RESTful API for data manipulation with framework *Sails.js*.
  - Build web application with framework *React*.
  - Apply lazy-loading to save **93%** per month from Google Maps API billing.
- **Android**
  - Feature development in *JAVA* / Google Pay Integration / Firebase integration.
- **StylePay** is a third-party payment platform that enables credit card transactions and has successfully increased the service fees for designers by up to **35%**.
  - Supporting pre-binding credit cards and integration with Apple Pay / Google Pay for users.
  - Integrating with banks and online invoicing systems to automate the process of generating reports, allocating rewards, issuing invoices, and reconciling accounts.
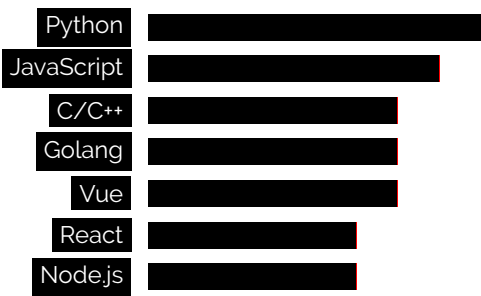
2015 – 06/2018   **Software Engineer**   **Synology Inc.**

- Renovate live streaming mechanism By integrating FFmpeg / WebSocket / HTML5 and MSE(Media Source Extension)

SUMMARY

With 8+ years of experience in software development, specializing in C/C++, JavaScript, and Python, I am currently working as a Senior Software Engineer at Synology Inc. In this role, I am responsible for developing and maintaining the QuickConnect feature, which enables users to access their NAS devices from anywhere without complex network settings.

Python

JavaScript

C/C++

Golang

Vue

React

Node.js

Git AWS Ansible Linux Teleport

EDUCATION

2013 – 2017	**Master's Degree**	**Another Awesome University**

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2014	**ERASMUS**	**Awesome University in Heaven**

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2007 – 2013	**Bachelor's Degree**	**Awesome University in Heaven**

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LANGUAGES

Czech - native
English - C2
Polish - B1

HOBBIES

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NON PROFIT

I help... Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec a diam lectus.