



# SCOTT TSAO

Software Engineer

## MOST RECENT EXPERIENCE

### Simpnic Inc. - Node.js Developer

#### Job Description

- Migrate gateway functions to the cloud through Node.js
- DB schema design
- Backend services implementation
- Development processes build up e.g. Code review
- Build up CI/CD processes through Jenkins, Grafana, AWS cloudwatch
- To mentor and guide trainees

#### Project and Achievement

##### Device Management Service

A bridge service that connects applications and devices to control and manage thousands of devices

- As a main developer to implement the service from scratch
- Design the flexible protocol through variable-length-integer for transmitting data between the device and backend services over TCP
- Done in three months, which included
  - Learning backend knowledge, JavaScript, Node.js,
  - Studying APP and firmware team documentation,
  - Defining APIs, interfaces
  - Implementation
  - Design DB schema
  - Running service on AWS EC2 instance
  - Use AWS Elastic Cache to cluster the bunch of EC2 instances
  - Feedback debug log from service to Grafana

##### Notification Service

Written in C, used to push the notification to the user's phone

- By integrating multi-threading and a thread pool into the project to address performance issues, performance improved by over 500%

##### LineBot Service

Users can monitor their home's electricity consumption in real-time, set energy-saving plans, and receive proactive alerts in case of electrical safety concerns through Line

- As a main developer to implement the service from scratch
- Done in a month, which included
  - OAUTH with Line
  - Third party log in
  - Study various format of Line bot message
  - Mechanism of push, reply message on Line

## About Me

Born in Taoyuan City in 1990, worked as a Software Engineer for around 10 years.



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## EDUCATION

### Yuan-Ze University

Bachelor of Information Management  
2008-2012

## LANGUAGE

- Chinese
- English (basic)

## EXPERTISE

- C++
- Javascript
- Node.js
- Protocols

## FOOTPRINT

- Simpnic Inc. 2021/7 - 2023/7  
Node.js Developer
- Trend Micro Inc. 2019/11 - 2021/8  
System Engineer
- Trend Micro Inc. 2016/5 - 2019/4  
Software Engineer In Test
- Jinhai Pulp&Paper 2013/10~2016/4  
iOS/Android developer