

# Taoyuan Wang

(+86) 18301930636 | [alanwanga@icloud.com](mailto:alanwanga@icloud.com)

## PROFESSIONAL EXPERIENCE

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### Software Engineer in Works Applications

Shanghai, China

2018–present

- Shanghai Tech Lead Group
  - STM Projects: Use Maven, Git, Vue.js, Spring Boot, and Hibernate
  - HUE HR Attendance Projects: Also use Spring Framework, JUnit, and CI/CD with Jenkins

### Research Assistant in Academia Sinica

Taipei, Taiwan

2017–2018 winter

- CKIP Group of Natural Language Processing Laboratory
  - Research Topic: Chinese subtask of Short Text Conversation chatbot at NTCIR
    - ◆ Implement sequence to sequence RNN-based models with PyTorch
    - ◆ Maintain a large repository of post-comment pairs from Weibo dataset
    - ◆ Use appropriateness scores of comments as reward for reinforcement learning

### Intern in SYNTEC TECHNOLOGY at Hsinchu Science Park

Hsinchu, Taiwan

2014 summer

- UI/UX design and troubleshooting for PC-based CNC controllers with C#.NET
  - OPLogReader: Access output log files of controllers
  - ComparePic: Recognize the differences of GUI between different versions of controllers

## SIDE PROJECTS

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- [Boki](#)
  - A self-customized accounting Android app designed for my own studying in Japan
  - Automatically rate exchange between JPY and TWD
  - Monthly budget control and basic analysis functions all in an extremely simple-to-use design
- [Midnight Radio](#)
  - A platform to share music, lyrics, and pictures with friends
  - Simulate radio-like live streaming by PHP and AJAX only with web server
  - Quality assurance by synchronization mechanisms
- [watchdog](#)
  - A Raspberry Pi remote-control webcam
  - Simple web UI for controlling servo motors to change the view of webcam
  - Periodically check the server status and restart the system if no response
- [p2p.tv](#)
  - A low latency P2P live video platform to save server resources
  - Control peer keeping server and media server for streaming with Servlet/JSP

- Create browser plugins of peer execution with FireBreath and NSIS
- Customize player and chatroom for website with AJAX

## EDUCATION

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### National Tsing Hua University

Hsinchu, Taiwan

Bachelor and Master of Computer Science

2010–2016

- Bachelor GPA: 3.94/4.3 (Major GPA: 4.15/4.3)
- Master GPA: 4.08/4.3
- Internet Laboratory
  - Teacher Assistant
    - ◆ Introduction to Computer Networks for undergraduates
    - ◆ Discrete-Event Simulation for graduates
  - Research Topic: Dynamic Routing and Spectrum Assignment in Elastic Optical SDN
    - ◆ Design a hybrid device architecture with modulation adaptive grooming
    - ◆ Simulate a specific network environment considering physical impairments with C/C++
    - ◆ Research on reinforcement learning and other policy-based heuristic algorithms with auxiliary graphs to minimize the blocking ratio of dynamic connection request

### Nagoya University

Nagoya, Japan

Program of Academic Exchange

2014–2015

- Average Grade: 85.41
- Database Laboratory
  - Work on a rule-based chatbot with LINE and Facebook interface based on opensource projects
  - Train the dialog model with dataset of American drama subtitles and conversation records with human beings

### Tsinghua University

Beijing, China

Summer Program of Java, Android, and Servlet/JSP

2012 summer

- Grade: 92
- Project: Mobile User Sensing System
  - Android app as client to collect local sensor data and interact with Servlet/JSP as server
  - Design web UI for data management, analysis, and visualization

## HONORS

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- 2014 National Tsing Hua University Exchange Scholarship
- 2013 Five-Year BA/MA Program of Regulations for Honors Students
- 2013 Outstanding Academic Achievement Award
- 2013 Excellent Junior of EECS Scholarship

## SKILLS

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- **Programming Languages:** C/C++, Java, JavaScript, Python
- **Languages:** Mandarin (native), English (TOEIC: 895, TOEFL: 99, GRE: 325/3), Japanese (JLPT: N1)