

# Taoyuan Wang

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## PROFESSIONAL EXPERIENCE

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### Software Engineer in Appen

Shanghai, China

2019–present

- China R&D Startup Team
  - Data Collection Tools: C++/JUICE client and Python/Flask server
  - Ampersand/Global Annotation Platform
    - ◆ Localize the platforms to support China business
    - ◆ Develop OCR features to improve annotation efficiency (by 28%)
  - Lidar Sensor Fusion Annotation Platform
    - ◆ Participate in the system design from scratch
    - ◆ Research on point cloud object detection and 2D/3D calibration

### Software Engineer in Works Applications

Shanghai, China

2018–2019

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

### Research Assistant in Academia Sinica

Taipei, Taiwan

2017–2018

- 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 datasets
    - ◆ Use appropriateness scores of comments as reward for reinforcement learning

## 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](http://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/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 specific 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

- Database Laboratory
  - Develop rule-based chatbots with LINE and Facebook interface based on opensource projects
  - Train dialog models with datasets of American drama subtitles and conversation records with human beings

### Tsinghua University

Beijing, China

Summer Program of Java, Android, and Servlet/JSP

2012

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

## HONORS

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- 2014 National Tsing Hua University Exchange Scholarship
- 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)