

Taoyuan Wang

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PROFESSIONAL EXPERIENCE

Software Engineer in Appen

Shanghai, China

2019–present

- China R&D Startup Team
 - Ampersand/Global Annotation Platform for texts/images
 - ◆ Localize the platforms to support China business
 - ◆ Develop OCR features to improve annotation efficiency (by 28%)
 - LiDAR Sensor Fusion Annotation Platform for self-driving cars
 - ◆ Design the platform from scratch (frontend with React and Three.js/WebGL, backend with Flask and Spring, deploy on AWS, and integrate with Figure Eight platform)
 - ◆ Research on point cloud object detection and 2D/3D calibration

Software Engineer in Works Applications

Shanghai, China

2018–2019

- Shanghai Tech Lead Group
 - STM Project: Maven, Vue.js, Spring Boot, and Hibernate
 - AI WORKS HUE HR Suite: 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

- [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

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

- 2014 National Tsing Hua University Exchange Scholarship
- 2013 Outstanding Academic Achievement Award
- 2013 Excellent Junior of EECS Scholarship

SKILLS

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