

# Ting-Yin Chang Chien

Rm. 3, 9F., No. 236, Qixian 1st Rd., Xinxing Dist., Kaohsiung 80053, Taiwan  
+886 919 549 131 | [tingyin.cc@gmail.com](mailto:tingyin.cc@gmail.com) | [tingyincc.github.io](https://tingyincc.github.io)

## EDUCATION

### BSc, Computer Science and Information Engineering (CSIE)

Sept. 2009 - June 2013

National Taiwan University (NTU)

Taipei, Taiwan

- Overall GPA: 3.84/4.3; Last 60 credits: 4.07/4.3

## SKILLS

**Practice** Computer Vision (OpenCV), Machine Learning (Tensorflow), Web Development (Django)

**Coding** C/C++, Python, JavaScript, HTML/CSS, C#, SQL

**Language** Mandarin, English (TOEFL 102), Japanese (JLPT N2)

## EXPERIENCE

### Research Assistant

Apr. 2018 - Present

Medical Computer-Aided Diagnosis System Lab, Dept. of CSIE, National Taiwan University

Taipei, Taiwan

- Conduct research on tumor-related images (breast tumor, lymph node, lung nodule images, etc.) detection and classification using machine learning/deep learning methods
- Reduced 87% of false positives (from 29.35 to 3.8) at 98% sensitivity (AUC = 0.961) and reduced 90% of execution time (from 11 sec. to 1 sec.) in tumor detection using the modified object detection system YOLO<sup>[4]</sup>
- Design experiments, visualize test statistics, sort data, and help edit theses and publications
- Cooperate with postdoctoral researchers, students, physicians, and industrial companies

### Software Engineer

Jan. 2014 - Mar. 2016

Brogent Technologies Inc.

Kaohsiung, Taiwan

- Developed the central control system of two 4-D, somatosensory, 100-seat rides in C/C++
- Designed a new UI and implemented it in C#, saving 50% of UI implementation time for other control system developers
- Implemented an SQL database to record the 1 GB of daily machine activity data
- Led a team of four software engineers in two full-year projects: Yumble 4-D Theatre (Roermond, Netherlands) and Wildlands Adventure Zoo Emmen 4-D Theatre: Arctic 1 (Emmen, Netherlands)
- Collaborated with mechanical and electrical engineers to design the ride show cycle
- Installed facilities, coordinated with subcontractors on-site, and provided customer support

## PERSONAL PROJECTS

### Lottery

Dec. 2018 - Jan 2019

- Built a website for playing the lottery using Django (Python)
- Implemented the frontend and adjusted interfaces as per the customer's requirements in JavaScript and HTML/CSS
- Implemented the backend with SQL database to let users import and modify awards and name lists

## EXTRACURRICULAR EXPERIENCE

### WWOOF (Volunteering) and Working Holiday in Japan / Australia / New Zealand

2016 - 2018

- Volunteered and worked in various industries, such as ranching, farming, and dining
- Communicated with travelers and local residents in Japanese and English, with full exposure to foreign cultures

### Public Relations Manager, CSIE Student Association

2011 - 2012

- Held three alumni forums for student career planning
- Coordinated a two-day event (NTU Azalea Festival) to help prospective students understand the Dept. of CSIE
- Held the summer camp of CSIE, teaching senior high school students how to code at a five-day camp