

Yu-wen Pwu

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SUMMARY

An undergraduate student majoring in computer science.
Enthusiastic about web programming, GNU/Linux, and open source movement.
Developing with HTML, CSS, JavaScript, C/C++, Java, Python, PHP, and MySQL.
Also interested in interdisciplinary studies of philosophy, sociology, and political science.

EXPERIENCE

Academia Sinica

July 2016 – August 2016

Summer Intern at Institute of Information Science

Academia Sinica is the most preeminent academic institution in Taiwan.

EDUCATION

National Chiao Tung University

2014 – 2018

Bachelor of Science (B.S.), Computer Science, Overall Grade: Top 13.73%

Taipei Municipal Chienkuo High School

2011 – 2014

High School Certificate, General Studies of Day Division

SKILLS

- Software Development
 - C/C++
 - Python
 - Java SE & Gradle
 - Git & Open Source Softwares
 - Data Structures & Algorithms
 - Network Programming (POSIX Sockets)
 - Parallel Programming (Pthread, OpenMP, MPI)
 - GPGPU & Heterogeneous computing (CUDA, OpenCL)
- Digital Circuits & Hardwares
 - RTL Design
 - Verilog & FPGAs
 - Microcontrollers
- Front-end Engineering
 - HTML5
 - CSS3 & Less
 - RWD & Bootstrap/Semantic UI
 - JavaScript & AJAX
 - jQuery
- Web Development & System Administration
 - PHP & Laravel
 - MVC Design Pattern
 - Unix-like Systems
 - LAMP Servers
 - MySQL Relational Databases
- Languages
 - Chinese (Native or Bilingual Proficiency)
 - English (Professional Working Proficiency)
 - Japanese (Elementary Proficiency)

AWARDS

Application Design Contest, 2nd Place

September 2015

Application Design Contest, 3rd Place

September 2014

National Chiao Tung University Information Technology Services Center

A web application development contest that requires a team to design and implement a designated application within a limited time.

Academic Achievement Award

April 2015

National Chiao Tung University

The Academic Achievement Award entitles to the students at the top five percent or the top three students in the class each semester.

PUBLICATIONS

Parallel Video Processing

January 2016

https://github.com/sunset1995/parallel_analysis/raw/v1.2.4/report.pdf

Authors: Cheng Sun, Po-han Chen, Yu-wen Pwu

A project for the Parallel Programming (Fall 2015) course in National Chiao Tung University.

Complete source code is publicly available on GitHub:

https://github.com/sunset1995/parallel_analysis

<https://github.com/yuwen41200/fpga-computing>

Web Design Tutorial

January 2015

<http://blog.ywpu.me/> · Author: Yu-wen Pwu

A comprehensive tutorial about web design.

Originally published as handouts for the web design lectures offered in Chienkuo High School Electronic Industrial Study Club in 2012.

PROJECTS

Biodiversity Analysis

August 2016

<https://github.com/yuwen41200/biodiversity-analysis>

Authors: Yu-wen Pwu, Yun-chih Chen

Biodiversity data analysis and visualization.

A project for the summer internship program at Institute of Information Science, Academia Sinica.

Complete source code is publicly available on GitHub.

Open Data and Data Visualization

October 2015

<http://ywpu.me/meichu-hack-2015>

Authors: Cheng Sun, Kuang-lin Pan, Yong-zhan Hong, Yu-wen Pwu, Zi-qi Lin

Career development analyses for Taiwan high school graduates.

A project for Meichu Hackathon 2015.

Complete source code is publicly available on GitHub:

<https://github.com/yuwen41200/meichu-hack-2015>

Website of C.K. High School Graduation Ceremony

May 2014

<http://www.ck.tp.edu.tw/~gra2014/> · Authors: Chia-sheng Chen, Yu-wen Pwu

The official website for our high school commencement in 2014.

Complete source code is publicly available on GitHub:

<https://github.com/qitar888/grad66th>

VOLUNTEERING **Team Mentor**

August 2015

Students' Information Technology Conference Camp 2015 · Science and Technology

Students' Information Technology Conference (SITCON) is a free and open source community founded by students in Taiwan.

General Services Staff

November 2014

gov Summit 2014 · Civil Rights and Social Action

gov.tw is a community in Taiwan dedicated to using information technology to promote information transparency and political democracy.

ORGANIZATIONS **National Chiao Tung University Students' Union**

Member of Division of Information Technology · September 2015 – September 2016

National Chiao Tung University Computer Science Students' Union

Member of Division of Public Relations · June 2015 – June 2017

Taipei Municipal Chienkuo High School Electronic Industrial Study Club

Vice President · June 2012 – June 2013

COURSES **National Chiao Tung University**

- Computer Science and Engineering
Calculus, Computer Organization, Data Structures, Digital Circuits, Discrete Mathematics, Artificial Intelligence, Computer Networks, Network Programming, Algorithms, Computer Graphics, Computer Security, Database Systems, Formal Language, Operating Systems, Java Programming, Linear Algebra, Microprocessor Systems, Object-oriented Programming, Parallel Programming, Communications Networks, Probability
- Humanities and Social Sciences
Political Sociology, Reading Classics of Social Studies

National Tsing Hua University

- Humanities and Social Sciences
Central Problems in Philosophy, Sociology, The History of People's Republic of China

Conferences

- Conference for Open Source Coders, Users and Promoters (COSCUP) 2013 & 2014
- Students' Information Technology Conference (SITCON) 2013