

YU-CHUN TSENG

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SUMMARY

Computer science graduate with academic training in operating system, parallel programming, and data analysis. Six years teaching experience in various software applications plus laboratory management. Awarded for demonstrating remarkable user support and for resolving critical operational issues in previous positions. Provide system administration and back-end development and support in current position.

SKILLS

- Programming Languages: HTML, CSS, Python, C, Haskell, TeX
 - Database: PostgreSQL, MySQL
 - OS: macOS, Linux, Windows
 - IDE: Anaconda, Xcode, Visual Studio
 - Framework: Bootstrap, Django
 - Text Editor: Vi/Vim, Sublime Text, Atom
 - Library: NumPy, Pandas, Matplotlib, Selenium, BeautifulSoup
 - Version Control: Git
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WORK EXPERIENCE

Analyst Programmer

Integrated Plant Protection Center, Oregon State University

*May 2017 – Present
Corvallis, Oregon*

- Develop a risk-model web application back-end mechanism to support users nationwide in implementing pest management decisions in agriculture
- Improve daily weather data (from NOAA, MesoWest, etc.) parsing efficiency by utilizing parallel computing techniques (e.g. Multi-thread and Multi-process)
- Setup USPEST.ORG failover mechanism to prevent service offline
- Design new interface of USPEST.ORG by taking advantage of Django, Bootstrap, etc.

Computer Teacher

DaTung Senior High School

*August 2008 – July 2013
Pingtung, Taiwan*

- Managed and maintained a computer laboratory. Duties included PC assembly and troubleshooting, OS and software installation, network configuration (e.g. TCP/IP, DNS, etc.), and FTP server settings
- Designed, organized and conducted courses focusing on Microsoft Office suite, image processing with Corel PhotoImpact, video editing with CyberLink PowerDirector, and programming in Microsoft Visual Basic

Dept. of Data Processing Teacher

NengRen Home Economic and Commercial Vocational High School

*August 2007 – July 2008
Taipei, Taiwan*

- Designed, organized and conducted courses focusing on class C technician certification in web design with Microsoft web development tools and class B technician certification in computer software application with Microsoft Office suite
- Taught concepts of PC architecture, PC assembling, and Microsoft Visual Basic in the computer information club weekly meeting

PROJECTS

- **Weather Data Merging** *July 2017*
Make use of virtual weather data to replace missed or irrational observed data in temperature, dew point, relative humidity, etc. within a climate and weather-based decision support system for agriculture
- **Particle System** *April 2016*
Utilized OpenMP, OpenCL, and OpenGL to depict phenomena in games or movies such as clouds, dust, fireworks, etc.
- **Operating System** *September 2015*
Implemented a sysfs (Pseudo File System) interface to VMCS (Virtual Machine Control Structure)

EDUCATION

- **Master of Engineering in Computer Science** GPA: 3.31/4 *2014 – 2016*
Oregon State University *Corvallis, OR*
- **Bachelor of Engineering in Electrical and Electronics Engineering** *2001 – 2005*
National Taiwan Normal University *Taipei, Taiwan*

HONORS & AWARDS

- Certificate of Appreciation – *Ministry of National Defense* *2007, Taiwan*
- Bronze Medal of 1st Kaohsiung Website Expo – *Taiwan School Cyberfair* *2006, Taiwan*