

Yu-Jung Chou

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EDUCATION

- **Purdue University** West Lafayette, IN
Master of Science in Computer Science; GPA:3.29 Aug. 2017 – Dec. 2018
- **National Tsing Hua University** Hsinchu, Taiwan
Bachelor of Science in Computer Science; GPA:3.61 Sep. 2012 – Jun. 2016

EXPERIENCE

- **National Tsing Hua University** Hsinchu, Taiwan
Web Developer 2/2016 - 6/2016
 - **Web Development:** Build the customized front-end of the website for the open source forum.
 - **Forum Organizer:** Organize open source forums, find speakers, promote events and prepare related materials.
- **National Tsing Hua University** Hsinchu, Taiwan
Research Assistant 9/2015 - 1/2016
 - **CAPTCHA Exploitation:** Exploit the CAPTCHA vulnerability of limited database questions.
 - **Web Crawler Development:** Develop a web crawler in python with the exploitation of CAPTCHA to extract large data for research purpose.

PROJECTS

- **Machine Learning:** 9/2017 - present
 - **Common Classifiers (from scratch):** KNN: Euclidean distance, Manhattan distance, Canberra distance; Decision Tree: ID3 algorithm; Perceptron: Vanilla/Basic, Average, Winnow
 - **Spam Filter:** Build Naive Bayes classifier and SVM classifier. Extract data of emails, use the appearances and frequencies of words as features to train the classifier.
 - **Handwritten Digits Recognition:** Implement the convolutional neural network in LeNet-5 architecture with tensorflow to classify images.
- **Penetration Testing — Vulnerability Detection:** 2/2015 - 1/2016 — 1/2018 - present
 - **Self Learning Materials:** OverTheWire, Capture The Flag Competition, Flare-on
 - **Independent Study:** Utilize the knowledge of Cryptography, Reverse Engineering, Pwn, Format String Attack, Web Exploitation, SQL Injection, etc. to explore information leakage and backdoors.
- **Software Develop, Hack, and Patch:** 1/2018 - 4/2018
 - **Software Development:** Build a file transfer service in C, involving socket programming and multithreading. Backdoors planted with techniques of buffer overflow, format string attack, command injection.
 - **Hacking and Patching:** Trace other teams' code; look for vulnerabilities/ backdoors; patch the breaches found.
- **Android App Development:** 10/2013 - 12/2013
 - **Friends in the crowd:** Design Android Mobile App in Java. Use Gmail account to record user data and message history; Google Calendar to create activities; Google Map to locate the participants.

AWARD

- **Information Security Computational Profession:** 7/120 applicants chosen to be the 2017 program candidates.
- **2015 Capture The Flag Competition:** Rank top 3 in Taiwan, the top 10% among competitors over the world.

TECHNICAL SKILLS

- **Programming Languages:** Python(preference), C/C++, SQL, shell scripts, Java
- **IDE/Tool:** Sublime text3, Git Cloud9, Eclipse, Visual Studio, Trello, Slack
- **Python Tool:** numpy, pandas, tensorflow, requests, beautifulsoup, pwn, re
- **Machine Learning:** KNN, Decision Tree, Perceptron, Naive Bayes, SVM