

# Yan-Ru Jhou

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## EDUCATION

**University of California, Los Angeles (UCLA), Los Angeles, California**

Sep 2019 – Present

- Master of Science in Computer Science

**National Tsing Hua University (NTHU), Hsinchu, Taiwan**

Sep 2014 – Jun 2018

- Bachelor of Science in Computer Science
  - **GPA:** 4.09/4.3 (Overall), **Ranking:** 7/126 (~Top 5%), **Honors:** Presidential Award\*3, EECS College Scholarship

## SOFTWARE SKILLS

<b>Expertise:</b>	Web Development, Cloud Service Development, Agile Development, DevOps
<b>Programming Languages:</b>	Python, Java, JavaScript, C/C++, MATLAB, Haskell (Prior Experience)
<b>Web Development:</b>	ReactJS, Django, Flask, Node.js, Bootstrap, RWD, HTML, CSS, JSON
<b>Technologies:</b>	Jenkins, Docker, GCP, PostgreSQL, Socket Programming, LaTeX, Git, Shell

## SOFTWARE DEVELOPMENT EXPERIENCE

**Deep Force, Taipei, Taiwan**

Mar 2019 – Aug 2019

*Software Application Intern*

- Developed websites based on **Django** for retail, industrial, and VIP membership management systems; deployed to production using **NGINX** and **Gunicorn**
- Maintained facial recognition system library by **C++** and **CMake tool**, which allowed door security systems to detect human faces and send back results to management systems by socket
- Performed testing on websites and tracked issues with **JIRA** system, resulting in 50% less total deployment time
- Reduced 20% ML models testing time and provided real-time performance benchmark by implementing automation tools and applications by **Jenkins** and **Django**

**Chunghwa Telecom Laboratories (CHT-TL), Taipei, Taiwan**

Jul 2018 – Aug 2018

*Software Intern*

- Developed HiCloud (cloud service) **Java/Python SDK**; allowed developers to build and deploy software applications
- Improved front-end user portal and generated library documentation by **StringTemplate** to enhance user usability
- Tested on HiCloud **Rest API** to improve its security, solving privilege escalation issues from improper authentication
- Built software using **Scrum methodology** and **Kanban** scheduling method

## RESEARCH EXPERIENCE

**Pattern Recognition and Image Processing (PRIP) Lab**

Feb 2017 – Jan 2018

*National Tsing Hua University, Hsinchu, Taiwan*

- Data Processing and Analysis by MATLAB: A Study on Taiwanese Population Data Between 1974 and 2016  
Supervisor: Prof. Chen, Chaur-Chin
  - Built **auto regression (AR)** mathematical model with **MATLAB** and predicted Taiwan's population against time, including total population, regional population, aging rates, birthrates, and death rates

## PROJECT EXPERIENCE (SELECTED)

**US Tax Computing Program with SQA Technique (C, Python)**

Apr 2018 – May 2018

*National Tsing Hua University, Hsinchu, Taiwan*

- Implemented a tax computing program in **C** that yields the tax value based on 1040EZ
- Adopted **Agile methodology** with pair programming to ensure a fast and flexible approach to delivering the project
- Tested black box and white box from boundary value analysis, equivalence testing, and decision table with **Python**

**Single Cycle Processor Simulator with Memory Management (C++)**

May 2016 – Jun 2016

*National Tsing Hua University, Hsinchu, Taiwan*

- Implemented a single-cycle CPU simulator based on MIPS R3000 ISA with memory hierarchy, Translation-Lookaside Buffer (TLB), and virtual page table mechanism