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

    o **GPA**: 4.09/4.3 (Overall), **Ranking**: 7/126 (~Top 5%), **Honors:** Presidential Award*3, EECS College Scholarship

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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

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RESEARCH EXPERIENCE

PRIP Lab, *National Tsing Hua University, Hsinchu, Taiwan*   Feb 2017 – Jan 2018

Project Student

- Data Processing and Analysis by MATLAB: A Study on Taiwanese Population Data Between 1974 and 2016 Supervisor: Prof. Chen, Chaur-Chin

    o 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

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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 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

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PROFESSIONAL SKILLS

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