Yan-Ru Jhou

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Education

University of California, Los Angeles (UCLA) — Los Angeles, California
Master of Science in Computer Science — *Sep 2019 - Mar 2021(Expected)*

National Tsing Hua University (NTHU) — Hsinchu, Taiwan
Bachelor of Science in Computer Science; GPA: 4.09/4.3; Ranking: 7/126 (Top 5%) — *Sep 2014 - Jun 2018*

Software Skills

- **Expertise**: Software Engineering, Programming Language, Web Development, Agile Development, DevOps
- **Languages**: Python, Scala, Java, JavaScript, Haskell, OCaml, R **Technologies**: Jenkins, Docker, PostgreSQL
- **Web Development**: ReactJS, Django, Flask, Node.js, Bootstrap, RWD, HTML, CSS, JSON, PostgreSQL

Software Development Experience

Deep Force — Taipei, Taiwan
Software Application Intern — *Mar 2019 - Aug 2019*

- 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
Software Intern — *Jul 2018 - Aug 2018*

- 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 — Hsinchu, Taiwan
Senior Project Student — *Feb 2017 – Jan 2018*

- 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)

- **Static Program Analysis on MiniJava (Java)**
  - Performed static (compile time) analysis on MiniJava, a subset of Java, to construct the call graph
  - Analyzed the program by Class Hierarchy Analysis(CHA) to help method devirtualization with 90.4% accuracy
- **US Tax Computing Program with SQA Technique (C, Python)**
  - 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

Scholarship and Award

- **Presidential Award (3 times)**, Computer Science Dept., NTHU (Mar 2015 – Mar 2018)
- **EECS College Scholarship**, College of Electronic Engineering and Computer Science, NTHU (Jun 2017)
- Honorary Member in **Phi Tau Phi Scholastic Honor Society, Taiwan**