# Hsing-Hsien Wang

SOFTWARE ENGINEER

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# Work Experience\_\_\_\_\_

### **Pinterest Inc.**

SOFTWARE ENGINEER - ML TRAINING PLATFORM

- Saved approximately \$1.8M/year on storing model artifacts by migrating from Amazon s3 storage to local storage of individual host
- Deployed more than **2000** models daily to Pinterest production environments by building a ML Ops platform covering *deployment interface*, version control, productionizing models and model status monitoring
- Empowered engineers to manage model versions, configure deployment schedule and monitor model loading progress by an interactive interface using React and Flask
- Automated and standardized the model deployment process with a continuous delivery pipeline which validates model, pushes models to production and performs canary analysis to prevent regressions on critical metrics
- Enabled services to load ML models on production environments more efficiently by integrating with MLFlow, AWS s3, SQL and Teletraan
- Performed cluster health check on 5000 hosts with multiple cron jobs by fetching and collecting model status from each host periodically
- Supported multi-tower model deployment use case and other custom use cases by extending the functionality of ML Ops platform

## Tumblr Inc.

SOFTWARE ENGINEER INTERN - CONTENT INTELLIGENCE

- Increased a total of 80,000 users leading to more than \$40,000 revenue by implementing a system to release inactive blog URLs
- Discovered millions of inactive primary and secondary blog users by creating Hive queries and inspecting users' last login time and blogs' page views
- · Launched Airflow jobs to trigger the pipeline including reactivating users, sending emails to users, building dormant users tables and monitoring each stage periodically with Python scripts
- Released 10,000 blog URLs to public through renaming inactive users' blogs using PHP
- Improved users' experience by reducing abusive and spam content in Tumblr through refactoring the queuing process of content moderation items by PHP

## **National Chiao Tung University**

BACKEND WEB DEVELOPER INTERN - CURRICULAR PLATFORM

- Deployed an official school curricular website with Express and Node.js to evaluate students' learning progress and check their graduation status for the Department of Computer Science from scratch
- Organized past courses to recommend students series of courses to take in future to meet graduation requirements through applying Dijkstra's algorithm
- Implemented 60 RESTful API endpoints and built course tables for different tracks with topological sort
- Established authentication by creating a login system with OAuth

# Education

### **University of Southern California**

M.S. IN COMPUTER SCIENCE

### **National Chiao Tung University**

**B.S. IN COMPUTER SCIENCE** 

Aug. 2018 - May 2020

Skills

Programming Language Python, HTML, CSS, SQL, JavaScript, Node.js, Bash, PHP, C/C++

Tools & Frameworks Flask, Spinnaker, MLFlow, AngularJS, Express, Airflow, Hive

#### Palo Alto, California

July 2020 - Present

New York, New York May 2019 - Aug. 2019

#### Hsinchu, Taiwan July 2017 - July 2018

Hsinchu, Taiwan Sep. 2014 - Jun. 2018

Los Angeles, CA