

TING-WEI LIN

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EDUCATION

University of California, Irvine (UCI)

Master of Computer Science

Irvine, CA

(Expected) Dec. 2021

National Chengchi University (NCCU)

Bachelor of Science in Computer Science

Taipei, Taiwan

July 2018

Bachelor of Science in Digital Contents & Technology Program (DCT)

TECHNICAL SKILLS

- **Technical:** Java, C/C++, Python, Numpy, Pandas, Pytorch, Keras, Spark, Hadoop, Unix/Linux, Bash/Shell, Git, Vim
- **Web&Database:** React.js, Node.js, JavaScript, Struts 2, Spring MVC, RESTful API, MySQL, Microsoft SQL
- **Cloud Technologies:** AWS (EC2, RDS, RedShift, S3, API Gateway, Lambda), Google Cloud Firestore

WORK EXPERIENCE

Amazon Web Services, Amazon

Software Development Engineer Intern - AWS CloudFront team

Seattle, WA

June 2021 - Sept. 2021

- Designed Points of presence (POP) capacity measurement on the basis of requests per second and network bandwidth in bytes per second, improving 10% accuracy on projecting big events' CPU utilization
- Integrated POP's capacity into a full-stack system with heatmap layout with **React.js**, **Express.js**, and **AWS DJS, RDS, RedShift, S3, API Gateway, and Lambda**, accurately displaying status of each POP and host
- Promoted POP capacity measurement system, increasing 30% efficiency of related teams' works for checking POP's status

Computational Linguistics & Information Processing Lab., NCCU & Academia Sinica

Research Assistant

Taipei, Taiwan

Sept. 2018 - May 2020

- Built DNN architecture—XRR—for risk ranking with financial reports in **Keras**, yielding up to 7.4% improvement according to two ranking correlation metrics and published at ECML-PKDD 2021 and AAAI-20 Workshop on KDF
- Implemented platform for investors or financial experts to spot risk-related information and facilitate analyses of soft information in financial reports by deploying **NodeJS** and **Express.js** Web framework
- Extracted and analyzed crucial factors (User behaviors and User preferences) on a real-world TV dataset and formally defined problems of TV Recommendation by using **scikit-learn**, **Mecab**, **Numpy** and **Pandas**
- Proposed algorithm to aggregate nearby item content embedding, time series, and channel preferences, yielding up to 20% improvement in recommendation quality in linear TV services

DHL Express

Software Engineer Intern, Dept. of Information System Development

Taipei, Taiwan

July 2017 - Jan. 2018

- Developed system with **JavaFX** to compare and calculate staff salaries automatically and generate reports, increasing efficiency of Department of Human Resources by 50%
- Engineered E-Government Uniform Invoice (EGUI) System for Department of Finance with **Struts 2 Web framework**, replacing old invoice system in response to new government policies
- Trained staff on functions and operations of EGUI system and installation of point-of-sale machine at 15 branch offices

Giant Shine Information Co, Ltd.

Back-End Developer Intern

Taipei, Taiwan

Jan. 2017 - Feb. 2017

- Combined administrative system with **I-Report** to generate official school documents automatically, replacing existing method of manually producing documents
- Maintained school administrative system in **Spring MVC Web framework** and established functions for assembling academic performance to establish transcripts

SELECTED PROJECT

P1cky

Social application that picks 1 restaurant based on users' requirements, favorites, or their friends' experiences

Apr. 2021 - June 2021

- Developed full-stack system with **React.js** Response Website Design layouts and **Cloud Firestore** database schema
- Fetched desired restaurants' information by integrating **Yelp Businesses API**, and **Google Places API** to improve user experiences and make searching restaurants and locations convenient

JooyIn

Social networking platform for users to initiate exercise groups

May 2020 - July 2020

- Established full-stack system with **NodeJS**, **Firebase Database**, **Facebook Login API**, and **Google Map API**
- Applied Socket.io to build chat rooms for users in each exercise group to evaluate experience in real-time