TING-WEI LIN

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EDUCATION

University of California, Irvine (UCI) **Irvine, CA**
Master of Computer Science (Expected) Dec 2021

National Chengchi University (NCCU) **Taipei, Taiwan**
Bachelor of Science in Computer Science July 2018
Bachelor of Science in Digital Contents & Technology Program (DCT)

TECHNICAL SKILLS

- **Technical:** Java, C/C++, Python, Numpy, Pandas, Pytorch, Keras, Unix/Linux, Bash/Shell, Git, Vim
- **Web & Design:** React.js, Node.js, JavaScript, Struts 2, Spring MVC, RESTful API, HTML/CSS, Photoshop
- **Database:** MySQL, Microsoft SQL, PostgreSQL, Firebase Realtime Database

WORK EXPERIENCE

Computational Linguistics & Information Processing Lab., NCCU Taipei, Taiwan
Research Assistant Sept 2018 - May 2020
- Built deep neural network 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 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 the problem 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 Taipei, Taiwan
Software Engineer Intern, Dept. of Information System Development 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. Taipei, Taiwan
Back-End Developer Intern 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 integrating academic performance to establish transcripts

SELECTED PROJECTS

P1cky May 2020 - July 2020
Social application that picks 1 restaurant based on users' requirements, favorites, or their friends' experiences
- Developed full-stack system with Response Website Design layouts by using **React.js**
- Design NoSQL database schema with **Cloud Firestore** and fetched desired restaurants' information by integrated **Yelp Business API**, and **Google Map API**.

JooyIn May 2020 - July 2020
Social networking platform for users to initiate exercise groups
- Developed full-stack system by using **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

BeePay July 2017 - Jan 2018
BLE Wireless Transaction System
- Created BLE mobile payment system, including mobile application for P2P wireless transactions and back-end system by using **Google BLE 4.0 API**, **Java Servlet**, **MySQL** and **Apache Tomcat**
- Proposed wireless network protocol using 3-way authentication, 2nd-party inspection, and RSA algorithm, ensuring complete data packet transport and avoiding double spending