

## Education

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<b>University of California, Irvine</b> Ph.D. in Software Engineering. GPA: 3.98/4.0 Thesis Topic: Advancing Automated Software Testing Through Test Reuse	Irvine, California September 2021
<b>National Tsing Hua University</b> Master of Science in Computer Science. GPA: 4.0/4.0	Hsinchu, Taiwan June 2008
<b>National Tsing Hua University</b> Bachelor of Science in Computer Science. GPA: 3.07/4.0	Hsinchu, Taiwan June 2006

## Technical Skills

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Programming Languages: Python, C#, Java, PowerShell, JavaScript, SQL  
Web App Development: Django, .NET Core, jQuery, Bootstrap  
Cloud Development and CI/CD: Microsoft Azure and DevOps, Jenkins, Robot Framework, Selenium  
Machine Learning and Natural Language Processing: scikit-learn, gensim, NLTK

## Experience

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<b>MGM Resorts International</b> Software Engineer	Irvine, California September 2021 – Present
<ul style="list-style-type: none"><li>Supported the Site Reliability Engineering team with alert monitoring and incident management to ensure 99.9% availability of the digital services at MGM</li><li>Developed automated solution with Azure, DevOps, and .NET Core to reduce the MTTR (mean time to resolve) of cloud tickets by 96% (4 days → 4 hours)</li></ul>	
<b>University of California, Irvine</b> Graduate Student Researcher	Irvine, California September 2016 – September 2021
<ul style="list-style-type: none"><li>Conducted research in software analysis and testing with natural language processing and machine learning techniques</li><li>Authored and published 6 peer-reviewed papers at top software engineering venues in 5 years</li></ul>	
<b>QNAP Inc.</b> Software Engineering Intern	Taipei, Taiwan July 2016 – August 2016
<ul style="list-style-type: none"><li>Introduced automated acceptance and regression testing with Python, Selenium, Robot Framework, and Jenkins to shorten the regression cycle from days to hours</li></ul>	
<b>National Agricultural Library</b> Research Intern	Beltsville, Maryland May 2014 – May 2015
<ul style="list-style-type: none"><li>Designed and implemented a queuing system for a Django website with RabbitMQ and Celery</li><li>Initiated and conducted continuous integration on web services, including automated functional and stress testing using Selenium and JMeter</li></ul>	

## Projects (700+ Stars and 390+ Forks on GitHub)

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**Kaggle Competition: Rainfall Prediction (7/126, top 6%):** Used ensembles (e.g., Random Forest and XGBoost) and feature engineering (e.g., missing data handling) to predict rainfall on 40K data points of infrared information

**PTT Web Crawler (390+ Stars and 200+ forks):** A Python command-line tool to crawl and parse data from PTT, the largest local online community in Taiwan

**Bulletin Board for Government Jobs (800+ daily users):** A Django website hosted on AWS, parsing and visualizing open data from Taiwan's government

**Predicting Best Answers for Questions on Stack Overflow:** Applied various ML models (e.g., Random Forest and XGBoost) and NLP techniques (e.g., Latent Semantic Indexing) to predict best answers for 44K questions on Stack Overflow. Outperformed baseline by 8.5%

## Selected Publications (Google Scholar Citations: 331. H-index: 8)

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### Conference Papers

- GUI Test Transfer from Web to Android  
Jun-Wei Lin and Sam Malek  
15<sup>th</sup> IEEE International Conference on Software Testing, Verification and Validation (ICST 2022) (26% acceptance rate)
- Test Automation in Open-Source Android Apps: A Large-Scale Empirical Study  
Jun-Wei Lin, Navid Salehnamadi, and Sam Malek  
35<sup>th</sup> International Conference on Automated Software Engineering (ASE 2020) (23% acceptance rate)
- Test Transfer Across Mobile Apps Through Semantic Mapping  
Jun-Wei Lin, Reyhaneh Jabbarvand, and Sam Malek  
34<sup>th</sup> International Conference on Automated Software Engineering (ASE 2019) (21% acceptance rate)
- Nemo: Multi-Criteria Test-Suite Minimization with Integer Nonlinear Programming  
Jun-Wei Lin, Reyhaneh Jabbarvand, Joshua Garcia, and Sam Malek  
40<sup>th</sup> International Conference of Software Engineering (ICSE 2018) (21% acceptance rate)
- Using Semantic Similarity in Crawling-Based Web Application Testing  
Jun-Wei Lin, Farn Wang, and Paul Chu  
10<sup>th</sup> IEEE International Conference on Software Testing, Verification and Validation (ICST 2017) (27% acceptance rate)

### Book

- Web Scraping and Data Analysis with Python (in Chinese)  
Jun-Wei Lin and Hubert Lin  
DrMaster Press, 2018. ISBN: 9789864343386

### Honors and Awards

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Graduate Dean's Dissertation Fellowship, UC Irvine, 2020

Chair's Award and Graduate Dean's Recruitment Fellowship, UC Irvine, 2016

Government Fellowship for Studying Abroad, Ministry of Education, Taiwan, 2014