

Jun-Wei Lin

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EXPERIENCE

MGM Resorts International

Software Engineer

Irvine, California

Sept. 2021 – Present

- Supported the Site Reliability Engineering team through alert monitoring, incident management, and cross-functional communication to ensure 99.9% digital service availability
- Implemented automated solutions with .NET Core and Terraform, reducing MTTR (mean time to resolve) for cloud infrastructure provisioning and configuration requests from days to hours
- Collaborated with development teams to troubleshoot cloud issues on AWS and Azure, ensuring seamless integration and deployment of new features

University of California, Irvine

Doctoral Researcher in Software Engineering

Irvine, California

Sept. 2016 – Sept. 2021

- Conducted research in software analysis and testing with natural language processing and machine learning techniques
- Authored and published 6 peer-reviewed papers at top software engineering venues in 5 years

QNAP Inc.

Software Engineering Intern

Taipei, Taiwan

July 2016 – Aug. 2016

- Developed automated UI tests with Python, Selenium, and Robot Framework that shortened the acceptance testing cycle from days to hours

National Agricultural Library

Research Intern

Beltsville, Maryland

May 2014 – May 2015

- Designed and implemented a queuing system with RabbitMQ and Celery for a bioinformatics web service
- Introduced CI/CD practices using Jenkins, Selenium, and JMeter to the development team

EDUCATION

University of California, Irvine

PhD in Software Engineering

Irvine, California

Sept. 2021

Thesis Topic: Advancing Automated Software Testing Through Test Reuse

National Tsing Hua University

MS in Computer Science

Hsinchu, Taiwan

July 2008

National Tsing Hua University

BS in Computer Science

Hsinchu, Taiwan

June 2006

PROJECTS (780+ Stars and 430+ Forks on GitHub)

PTT Web Crawler (430+ stars and 220+ forks) | Python, BeautifulSoup

- A Python CLI that crawls and parses data from PTT, the largest local online community in Taiwan

dgpajobs.net (800+ daily active users) | Django, Bootstrap, jQuery, MySQL, Docker

- A Django website hosted on Azure that analyzes government job vacancy data in Taiwan

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

TECHNICAL SKILLS

AWS and Azure Certified Developer

Web App Development: Django, .NET Core, jQuery, Bootstrap, Swagger

Programming Languages: Python, C#, Java, Bash, PowerShell, JavaScript, SQL, Kusto

Tools and Technologies: Docker, Kubernetes, Terraform, Git, Azure DevOps, GitHub Actions, Jenkins, Robot Framework, Selenium, Jira, OpsGenie, Linux/Unix administration

Machine Learning and Natural Language Processing: scikit-learn, gensim, NLTK

SELECTED PUBLICATIONS (530+ citations on Google Scholar)

- ROUTE: Roads Not Taken in UI Testing
Jun-Wei Lin, Navid Salehnamadi, and Sam Malek
ACM Transactions on Software Engineering and Methodology, 32, 3, Article 71 (May 2023)
- GUI Test Transfer from Web to Android
Jun-Wei Lin and Sam Malek
15th 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
35th 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
34th International Conference on Automated Software Engineering (ASE 2019) (21% acceptance rate)
- Web Scraping and Data Analysis with Python (in Chinese)
Jun-Wei Lin and Hubert Lin
DrMaster Press, 2018. ISBN: 9789864343386

HONORS AND AWARDS

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