Jun-Wei Lin

✉ junwei.resume@gmail.com | 🌐 jlin.info | ⬡ jwlin | **in** junwei-lin |

EXPERIENCE

MGM Resorts International — Irvine, California
Site Reliability Engineer — Sept. 2021 – Present
- Troubleshoot and debugged cloud-based infrastructure problems on Azure and AWS to address customer inquiries and resolve issues
- Collaborated with teams to plan and execute maintenance and upgrades; ensured smooth communication and coordination during incidents
- Automated cloud provisioning and configuration with .NET Core, Python, PowerShell and Terraform, reducing MTTR (mean time to resolve) from days to hours

University of California, Irvine — Irvine, California
Doctoral Researcher in Software Engineering — Sept. 2016 – Sept. 2021
- Conducted advanced research in software analysis and testing using natural language processing and machine learning techniques (AI for SE), demonstrating exceptional analytical and problem-solving skills
- Authored and published six peer-reviewed papers at top-tier software engineering venues, showcasing strong written communication and technical writing expertise

QNAP Inc. — Taipei, Taiwan
Software Engineering Intern — July 2016 – Aug. 2016
- Developed automated UI tests with Python, Selenium, and Robot Framework shortening the acceptance testing cycle from days to hours

National Agricultural Library — Beltsville, Maryland
Research Intern — May 2014 – May 2015
- Designed and implemented a queuing system with RabbitMQ and Celery for bioinformatics web services
- Introduced CI/CD practices using Jenkins, Selenium, and JMeter to the development team

TECHNICAL SKILLS

Cloud Platforms: Azure and AWS Certified Developer

Systems: Linux, Windows, Networking (TCP/IP, DNS)

Backend Engineering: Django, .NET Core, Swagger, Python, C#, Java, JavaScript, SQL, Kusto, Bash, PowerShell

Automation Tools: Docker, Kubernetes, Terraform, Azure DevOps, GitHub Actions, Jenkins, Robot Framework, Selenium

Monitoring & Logging: Prometheus, Grafana

EDUCATION

University of California, Irvine — Irvine, California
PhD in Software Engineering — Sept. 2021
Thesis Topic: Advancing Automated Software Testing Through Test Reuse

National Tsing Hua University — Hsinchu, Taiwan
MS in Computer Science — July 2008

National Tsing Hua University — Hsinchu, Taiwan
BS in Computer Science — June 2006

PROJECTS (800+ Stars and 440+ 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

Selected Publications (590+ citations on Google Scholar. H-index: 10)

- ROUTE: Roads Not Taken in UI Testing
  <u>Jun-Wei Lin</u>, 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
  <u>Jun-Wei Lin</u> 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
  <u>Jun-Wei Lin</u>, 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
  <u>Jun-Wei Lin</u>, 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)
  <u>Jun-Wei Lin</u> 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