

Jui-Chi Liu

(1) 6024101202  rich.liu627@gmail.com  richie-liu  Rich627  rich-liu.com

PROFESSIONAL SUMMARY

ASU M.S. Data Science student and Solutions Architect focused on generative AI and ML on AWS, GCP, and Azure, with multi-cloud certifications. Build and deploy end-to-end AI solutions like LLM pipelines (RAG, fine-tuning, multi-agent) and lead workshops for 200+ participants.

Education

Arizona State University

M.S. in Data Science, Analytics and Engineering

Tempe, United States

Aug 2025 - May 2027

Fu Jen Catholic University

B.S. in Mathematics (Information Mathematics Section)

New Taipei City, Taiwan

Sep 2020 - June 2024

TECHNICAL SKILLS

Languages & Programming: Python, C, C++, Java, R, SQL, Julia

ML & Data Science: PyTorch, TensorFlow, Scikit-learn, Data Pipeline, Data Lake, Data Visualization, Data Analytics, Time Series, Deep Learning, SQL/NoSQL, Regression

Generative AI & LLM: LangChain, LangGraph, QLoRA, RAG, Fine-tuning, Multi Agent

DevOps & Deployment: Docker, Git, Linux, CI/CD, Terraform, Jira, Github Action

Certifications

AWS: ML Specialty, SA Associate, Developer Associate

GCP: Professional ML, Data Engineer, Cloud Architect, Data Associate

Azure: Data Scientist Associate, AI Fundamentals

WORK EXPERIENCE

Next Lab - Arizona State University

Tempe, United States

Studio Associate, AI Guild

Oct 2025 - Present

- Designed and deployed a multi-agent WhatsApp learning assistant on AWS ECS, enabling students to access AI-driven study support through a familiar chat interface.

iKala Interactive Media Inc.

Taipei, Taiwan

Solutions Engineer (Contractor), Cloud

Aug 2025 - Present

- Migrated ETL processes from EC2 to AWS Glue with workflow orchestration and refactored code to optimize performance, reducing processing time by 40%.
- Worked directly with a U.S.-based team on a web-scale IT migration project, supporting AWS-based architecture design and implementation for reliable and scalable workloads.

Solutions Architect, Cloud

Oct 2024 - July 2025

- Designed and deployed secure AWS environments with DR sites, VPC peering, HA architecture, and WAF, improving availability and compliance for government clients.

- Deployed an AWS Landing Zone using Terraform (CAF), supporting solution design and driving the implementation of AWS Control Tower, SSO-based access, IAM, and centralized security services, scalable governance across 80+ AWS accounts.
- Led presales and GenAI solutioning for 60+ customer engagements, delivering high-fidelity PoCs and technical demos using Amazon Bedrock, SageMaker, Vertex AI, and AgentSpace to accelerate customer adoption.

Advantech Co., Ltd.

Taipei, Taiwan

Data Scientist Intern, IT-AI

July 2024 - Sep 2024

- Performed data preprocessing and time-series analysis, achieving 90% forecast accuracy with Amazon Forecast to improve demand planning efficiency.
- Developed a multi-agent system with LangGraph, deployed via Azure and Docker, resulting in a 30% reduction in R&D issue resolution time.
- Developed a video translation platform by integrating open-source LLMs and neural networks with a Gradio, achieving 50% improvement in translation speed and accuracy.

Amazon Web Services

Taipei, Taiwan

(AWS Educate Cloud Ambassador Program)

Mar 2024 - June 2025

Backend Engineer

- Built a serverless microservices email delivery system that reduced workload by 80% and averaged \$1.94 in monthly costs.

Tech Support Team Lead

- Led a 7-member team within an Agile framework using Jira, promoting ownership, clear communication, and accountability across the team.
- Hosted an Amplify and Bedrock workshop for 80+ participants, demonstrating the use of Bedrock Flow and Agnatic Flow to build a GenAI chatbot analyzing concert data.
- Delivered public training sessions on Q Developer, SageMaker, and ML service via YouTube Live, engaging 200+ participants and driving GenAI tool adoption.

Tech Support Ambassador

- Assisted over 100+ students in obtaining AWS certifications by hosting live YouTube courses on Route53 and CloudFront, attracting over 400+ participants and achieving a 4.8 satisfaction rating.
- Conducted a workshop replicating Spotify's early music acceleration challenges using CloudFront and Lambda@Edge, earning a 4.9 satisfaction rating.
- Established a six-month AWS certification preparation program and attracted over 1,000 registrations and built a community with 1k+ MAU.

eCloudvalley Digital Technology Co., Ltd.

New Taipei, Taiwan

Cloud Developer Intern, AI&Data

Feb 2024 - May 2024

- Optimized ETL with AWS Glue and PySpark, reducing data preprocessing time by 20%.
- Leveraged AWS Personalize to build recommendation systems, achieving a 90% precision marketing rate.

EXTRACURRICULAR ACTIVITIES

AWS Community Day Taiwan

Oct 2024

Workshop Speaker

- Developed an AI psychology test platform with over 7,500+ completions, secured by CloudFront, WAF, and Lambda/DynamoDB rate-limiting.
- Integrated a SageMaker fine-tuning demo (QLoRA) into the platform and presented it in a live workshop, achieving 5.0/5.0 satisfaction from attendees.