

## Jui-Chi Liu

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### PROFESSIONAL SUMMARY

M.S. Data Science student at Arizona State University and Solutions Architect with experience in presales, GenAI solutioning, and cloud delivery. Led 60+ customer engagements across multi-cloud environments, delivering impactful PoCs and technical demos to drive adoption. Launched a six-month AWS certification program with 1,000+ registrations and a 1k+ MAU community, and actively contributed as an AWS Community Builder (AI Engineer).

### EDUCATION

**Arizona State University, United States** Aug 2025 - May 2027

M.S. in Data Science, Analytics and Engineering (Cumulative GPA: 3.44 / 4.0)

**Fu Jen Catholic University, Taiwan**

Sep 2020 - June 2024

B.S. in Mathematics (Information Mathematics Section) (Cumulative GPA: 3.01 / 4.0)

### WORK EXPERIENCE

**Studio Associate (AI Guild) — Next Lab, Arizona State University** Oct 2025 - Present

- Built and integrated a multi-agent WhatsApp learning assistant on AWS ECS, enabling students to access AI-driven study support via a chat interface, with LangSmith used for LLM tracing, monitoring, and evaluation.

**iKala Interactive Media Inc.**

*Solutions Engineer (Contractor), Cloud*

Aug 2025 - Present

- Migrated ETL processes from EC2 to AWS Glue to optimize performance, reducing processing time by 40%.
- Worked directly with a U.S.-based team on an IT migration project for the Webscale platform, 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 and HA architectures for MongoDB workloads on EC2, using VPC peering, WAF, and CloudFront to improve 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, enabling scalable governance across 80+ AWS accounts.

**Data Scientist Intern, IT-AI - Advantech Co., Ltd.**

July 2024 - Sep 2024

- Applied time-series analysis with Amazon Forecast, achieving 90% accuracy to improve demand planning.
- Built a multi-agent system with LangGraph, exposing GraphQL APIs and integrating a NoSQL datastore, deployed on Azure using Docker Compose (Linux), resulting in a 30% reduction in R&D issue resolution time.
- Implemented a video translation platform by integrating open-source LLMs and neural networks with a Gradio interface, achieving 50% improvement in translation speed and accuracy.

**Amazon Web Services Taiwan (AWS Educate Cloud Ambassador Program)**

Mar 2024 - June 2025

- Built a serverless email delivery system that reduced workload by 80% and averaged \$1.94 in monthly costs.
- Led a 7-member team within an Agile framework using Jira, fostering strong ownership and accountability while promoting clear communication, cross-functional collaboration, and alignment with delivery goals.
- Hosted an AWS Amplify and Amazon Bedrock workshop for 80+ participants, demonstrating the use of Bedrock Flows and agentic workflows to build a GenAI chatbot for concert data analysis and visualization.
- Delivered live online AWS training sessions via YouTube Live for 400+ participants, covering Amazon Q Developer, SageMaker, Route 53, and CloudFront, achieving an average 4.85 satisfaction rating.
- Conducted a hands-on workshop using CloudFront and Lambda@Edge, earning a 4.9 satisfaction rating.

**Cloud Developer Intern, AI&Data - eCloudvalley Digital Technology Co., Ltd.**

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

**Workshop Speaker - AWS Community Day Taiwan**

Oct 2024

- Supported the development of an AI psychology test platform with 7,500+ completions, contributing to platform security and scalability and integrating a SageMaker fine-tuning (QLoRA) demo, which was showcased in a live workshop with 5.0/5.0 attendee satisfaction.

### ADDITIONAL INFORMATION

**Technical Skills:** Python, C, C++, Java, R, PyTorch, TensorFlow, Scikit-learn, Data Pipeline, Data Analytics, Time Series, Deep Learning, SQL/NoSQL, RAG, Fine-tuning, Multi Agent, Docker, Git, Linux, CI/CD, IaC, NextJS, React

**Certifications:** AWS (ML Specialty, SA - Associate, Developer - Associate); GCP (Professional ML, Data Engineer, Cloud Architect, Data Associate); Azure (Data Scientist Associate, AI Fundamentals)