

# Yung-Chi Huang

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## Education

### National Central University

B.S., Computer Science and Information Engineering — Jun 2026 (Expected)

## Experience

### 7th AWS Educate Campus Ambassador Dev Team

Dec. 2024 - Present

Full-Stack Developer (Frontend, Backend)

- Contributed to TPET, a serverless email delivery system built on microservices and cloud-native technologies, enhancing processing and management efficiency

### eCloudvalley Digital Technology Co. Ltd.

July 2024 - Sep. 2024

Cloud Developer Intern

### Informatics and social service II TA

Sep 2023 - Present

Python Instructor | Technical Mentor

- Delivered expert-led Python programming lectures, focusing on developing students' technical skills and problem-solving capabilities
- Provided hands-on mentorship during projects, including AI camp development and online course delivery, guiding students through complex coding challenges and fostering practical skills

## Projects

### Zero Trust Federated Learning Platform on Blockchain

Feb. 2025 - Present

Full-Stack Developer (Frontend, Networking, Federated Learning)

- Engineered a secure, visualized federated learning platform with RESTful API integration, enabling decentralized model training across subsidiaries while maintaining data locality and integrity
- Deployed the federated learning environment using Docker containers on Ubuntu, supporting isolated, scalable training across organizations
- Applied Zero Trust principles and TLS-on-chain validation to ensure secure, authenticated communication in multi-party training
- Designed a heterogeneity-aware trust mechanism to detect adversarial updates and support diverse data distributions under non-IID conditions

### Smart Infrastructure Inspection: ICAM-540 + GenAI Edge-Cloud Collaboration Sol.

April 2025

Backend Developer

- Provisioned a secure serverless architecture using Terraform, automating the deployment of WAF → CloudFront → API Gateway → Lambda for scalable request handling and protection
- Deployed Lambda containers via ECR and built RESTful APIs to support backend workflows
- Designed a secure upload flow using pre-signed URLs to enhance access control and reduce credential exposure

### Reverse image search engine

Feb. 2025 - March 2025

Backend Developer

- Developed a multimodal image search system using pre-trained embeddings and KNN-based retrieval for accurate text-to-image and image-to-image queries.

### AI Guardian

Aug. 2024 - Sep. 2024

Backend Developer

- Developed AI Guardian, a serverless conversational assistant for AWS WAF provisioning with 70% faster setup via IaC
- Integrated RESTful APIs for flexible setup and validation, enhancing usability and demonstrating DevOps-AI integration

## Certifications

AWS Certified AI Practitioner, AWS Certified Cloud Practitioner

### Collegiate Programming Examination

4.5% | solved 5/7 | Professional (A)

## Skill sets

### Skill

Python, TypeScript, C++, React, Docker, Terraform, AWS, GCP, Hyperledger Fabric, Linux

### Focus

Cloud Architecture, Infrastructure as Code (IaC), Networking, Blockchain, Generative AI Applications