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

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

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