

# TSUNG-HAN HO

Senior Software Engineer | Cloud Architecture & AI Integration Specialist

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## EDUCATION

### National Cheng Kung University

M.S. in Institute of Computer Science and Information Engineering

Tainan, Taiwan

Sep. 2019 - Aug. 2021

- Research focus: Multi-scale thermal-to-visible face synthesis using deep learning.

### National Taiwan Ocean University

B.S. in Department of Computer Science and Engineering

Keelung, Taiwan

Sep. 2015 - Jun. 2019

## WORK EXPERIENCE

### Senior Software Engineer

iKala Interactive Media Inc.

Taipei, Taiwan

May 2024 - Present

- Architected and maintained iKala Git Agent using GPT-4o and Claude APIs with custom prompt-tuning, supporting over 100 internal developers and reducing code review time by 40% through automated code analysis.
- Engineered and maintained Kolr (KOL Radar) platform serving 10K+ accounts and 500+ enterprise clients, ensuring rapid delivery to customers.
- Designed and developed the Threads SDK, reducing integration time and enabling seamless internal tool connectivity.
- Improved API performance by 50% by optimizing JSON decoding.

### Software Engineer

MoshiMosh.ai

Remote, Part-time

Jan. 2025 - Jun. 2025

- Migrated from Stripe to third-party payment service, reducing operational costs by 30% while maintaining seamless payment processing.
- Developed a subscription and notification system for 2,000+ users, improving user engagement and experience.
- Established a CI/CD pipeline and successfully migrated services from Zeabur to Google Cloud Platform's GKE, optimizing deployment and scalability.

### Software Engineer

VoiceTube Corp.

Taipei, Taiwan

Jul. 2023 - May 2024

- Collaborated with product and UX teams to align technical solutions with user needs, increasing trial course completion rates by 8.5%.
- Optimized user flow, reducing third-party API calls by 74% and cutting operational costs from \$120,000 to \$30,000 annually.
- Led end-to-end deployment of microservices on GCP GKE, supporting 1K+ daily active users with high availability.
- Automated CI/CD pipelines for containerized applications and implemented centralized monitoring, Automatic Speech Recognition (ASR), and sentence similarity systems using Docker, GCP Artifact Registry, and Helm.

### Software Engineer

Emotibot

Taipei, Taiwan

Dec. 2021 - May 2023

- Developed and integrated EmotiChatBot with third-party services (ChatGPT, Google, WeChat), enabling seamless cross-platform functionality.
- Implemented the model evaluation pipeline resulting in a 30% performance improvement.
- Constructed and deployed high-availability products utilizing AWS Cloud Services, RESTful APIs, and WebSocket.

### Information Technology Intern

Taiwan Semiconductor Manufacturing Company, Ltd

Hsinchu, Taiwan

Jul. 2020 - Sep. 2020

- Engineered an automated KPI dashboard using Power BI, reducing manual reporting time from 8 hours to 1 hour weekly.
- Built a Robotic Process Automation (RPA) system using PowerBI and UiPath that automates data retrieval and processing, identifies incomplete tasks, and sends automated reminders to the responsible parties.

### Freelancer

Open-Source

Remote

Nov. 2024 - Present

- **Contributor** - Active contributor to open-source projects including [redis/rueidis](#), [kafka](#), [free5gc](#), and [yunikorn](#).

TECHNICAL SKILLS

**Software Development:** Python, Go, Java | FastAPI, Gin, Spring Boot | RESTful API, gRPC, WebSocket  
**Cloud & Infrastructure:** GCP (Professional Certified), AWS, Azure | Kubernetes, Docker, Helm | CI/CD  
**Databases & Storage:** PostgreSQL, MySQL, Redis, ClickHouse, MongoDB | Database design  
**AI/ML Integration:** PyTorch, NumPy, Pandas | Prompt engineering, Model fine-tuning, LLM APIs  
**Monitoring & DevOps:** Grafana, Prometheus, OpenTelemetry | PowerBI, Langfuse | Git, LGTM stack

CERTIFICATIONS

|   |           |
|---|-----------|
| Google Cloud Professional Cloud Architect | May 2025  |
| Microsoft Azure Fundamentals (AZ-900)     | Apr. 2025 |

PUBLICATIONS

- Tsung-Han Ho, Chen-Yin Yu, Tsai-Yen Ko, and Wei-Ta Chu, “The NCKU-VTF Dataset and a Multi-scale Thermal-to-Visible Face Synthesis System,” *Proceedings of the International Conference on Multimedia Modeling*, pp. 463-475, 2023. [\[Link\]](#)