TSUNG-HAN HO

Software Engineer | Cloud Architecture & AI Integration Specialist

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EDUCATION

National Cheng Kung University *Tainan, Taiwan*
M.S. in Institute of Computer Science and Information Engineering *Sep. 2019 - Aug. 2021*
- Research focus: Multi-scale thermal-to-visible face synthesis using deep learning.

National Taiwan Ocean University *Keelung, Taiwan*
B.S. in Department of Computer Science and Engineering *Sep. 2015 - Jun. 2019*

WORK EXPERIENCE

Senior Software Engineer *Taipei, Taiwan*
iKala Interactive Media Inc. *May 2024 - Present*
- Architected and maintained iKala Git Agent using GPT-4o and Claude 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 *Remote, Part-time*
MoshiMosh.ai *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 *Taipei, Taiwan*
VoiceTube Corp. *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 *Taipei, Taiwan*
Emotibot *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 *Hsinchu, Taiwan*
Taiwan Semiconductor Manufacturing Company, Ltd *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 *Remote*
Open-Source *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, 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. 2024*

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]