

Harry(Chih-Han) Chung

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SUMMARY

Software engineer and AWS Certified Solutions Architect – Associate with experience across on-premises security products and cloud delivery on AWS and Azure. Works directly with customers to turn requirements into tested solutions, with hands-on experience building serverless applications, deploying infrastructure with IaC, and adapting an on-premises appliance to boot and provision on Azure.

WORK EXPERIENCE

Software Engineer, Trend Micro

Oct 2025 - Present

- Reduced hotfix build time for Deep Discovery Email Inspector (DDEI), an on-premises email security appliance, by ~82% (from 55 to 10 minutes with cache available) through parallel compilation, dependency caching, and skipping unnecessary RPM packaging. The team uses the improved workflow for nearly 20 builds per week.
- Worked with customers to define per-LDAP sender and recipient domain validation by extending DDEI's Postfix restrictions to check LDAP-sourced data in Redis, allowing administrators to apply address policies for each directory independently.
- Delivered a bootable Azure VHD and deployment SOP for DDEI's Rocky Linux 9 appliance, resolving UEFI/GRUB and LVM startup failures, rebuilding initramfs with Hyper-V drivers, and documenting VM provisioning and OS disk expansion.
- Analyzed eight months of production AWS costs across DynamoDB indexes and 13-replica Global Tables, KMS, and Cognito Threat Protection; modeled cost-reduction options and ruled out changes that would compromise customer functionality, data freshness, or compliance controls.

INTERNSHIP and AMBASSADORS EXPERIENCE

AWS Educate 7th Cloud Ambassador Tech Lead, AWS

Jan 2025 - Aug 2025

- Led a 7-person team through Agile sprints to design and deliver TPET, a serverless platform that merges spreadsheet data into customizable email templates, reducing manual email operations by ~80%.
- Introduced Aurora Serverless v2 alongside TPET's initial DynamoDB implementation to support more flexible search filters and direct page navigation in the user interface.
- Built CI/CD workflows with GitHub Actions, Docker, ECR, and Terraform to automate builds and make infrastructure deployments repeatable across environments.
- Migrated team's GitHub Actions API tests from Postman/Newman to Bruno/Bruno CLI, enabling Git-based collaboration without Postman seat limits while retaining automated CI runs.

AWS Educate 6th Cloud Ambassador Tech, AWS

Mar 2024 - Nov 2024

- Developed an interactive web application using Amplify, Lambda, API Gateway, DynamoDB, and the open-source PokéAPI, allowing users to interact with Pokémon. (Becoming a Pokémon Master !)
- Developed and launched a psychological test using S3, CloudFront, API Gateway, Lambda, Route 53, and Bedrock, attracting over 7,000 users within 17 days. (AWS Psychological Test)
- Organized multiple workshops and served as a speaker at AWS Community Day, sharing experiences as an ambassador.

Cloud Engineer Intern, eCloudvalley

July 2024 - Sep 2024

- Deployed the Azure infrastructure for a client's internal AI knowledge platform using IaC, connecting application, data, and AI services through private endpoints and establishing site-to-site VPN connectivity to a simulated on-premises environment.

EDUCATION

National Taiwan University, Master's

Sep 2023 - Jun 2025

Department of Mechanical Engineering, Taiwan

National Taiwan University, Bachelor's

Sep 2019 - Jun 2023

Department of Mechanical Engineering & Bioenvironmental Systems Engineering, Taiwan

SKILLS

Language: English (TOEIC: 935), Mandarin (Native)

Professional Skills: Python, C++, Linux, SQL, Next.js, AWS, Azure, Terraform, Docker, Claude Code, Codex

Certificate: AWS Certified Solutions Architect - Associate

Methodologies: Agile Development, Scrum Framework