

Jerome Lieow

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Multi Cloud and Kubernetes Certified Solution Architect at Cloud Mile, a Google Premier Partner. 8 YOE in full stack, Cloud, DevOps and Platform Engineering. **Eligible for H-1B1 visa**, similar to the TN visa.

PROFESSIONAL EXPERIENCE

Solution Architect – Cloud Mile Pte Ltd, Singapore, Jan 2024 – Current Position

- Collaborated with Malaysia's largest Payments Processor to test their architecture on GCP.
- Perform discovery to understand customer's business goals and provide appropriate technical solutions and architecture designs.
- Architect and deploy workloads on AWS, Azure, GCP, Government Commercial Cloud (GCC) environments and integrated with ISVs such as MongoDB, Snowflake and Confluent.
- Run workshops and build POCs on VMs, serverless and Kubernetes workloads across AWS, Azure and GCP.
- Optimise expenditure, increase security and build a migration case for clients' existing infrastructure state across Cloud providers in accordance to the Well Architected Framework.
- Led the creation of enablement syllabus and GTM material for Looker BI.
- Load tested client web and mobile applications, fixed bottlenecks, misconfigurations and scaling inefficiencies enabling them to scale from 100k users/30 mins to 500k users/30 mins while maintaining >99% app stability (based on firebase analytics).
- Automated deploying and cleaning up AWS multi-account environments via AWS and GCP services. This consolidated 3 platforms previously used for AWS account deployment and automated the clean-up process.

Senior Solution Engineer – Cloud Mile Pte Ltd, Singapore, Jan 2023 – Dec 2023

- Architected and implemented a Hub and Spoke architecture on AWS which centralizes ingress, egress, inspection and logs, deployed via GitOps using Terraform.
- Designed and implemented pipelines with ISVs such as Snowflake, Fivetran and Twilio.
- Implemented a GitOps process on GitHub using Terraform, providing a team of 10 engineers a centralised platform to provision cloud resources on AWS and Azure, strengthening least privilege access and providing a traceability record for deployments.
- Developed ChatOps on Slack with GCP cloud functions using TypeScript, which provided 15 developers across 3 teams with a self-service method to provision infrastructure to multiple cloud service providers.
- Built a Python3 tool, Terraform Manager, extending the Terraform CLI to standardise and enforce a code structure, improve knowledge/documentation management and onboarding of new engineers.
- Set up and deployed Ansible to manage VM and container configurations across environments and peered networks and integrated it with Hashicorp Vault for secret management.
- Self-hosted dev tools such as GitLab, Mattermost, DependencyTrack, DefectDojo, HashiCorp Vault, and PostHog on VM and serverless infrastructure.
- Automated the tagging strategy and instrumentation of applications across AWS and Azure with DataDog using Terraform.
- Provide training and mentorship for new hires and customers.
- Conduct interviews to assess the qualifications and fit of potential candidates.

Associate Lecturer (CSIT 242 - Mobile Application Development) – SIM University, Singapore, Jan 2022 – Mar 2022

- Setting course assignments and conducting lectures.
- Conducting all forms of assessment and evaluation required by the institution.

Solution Engineer – Cloud Mile Pte Ltd, Singapore, Aug 2021 – Dec 2022

- Responsible for implementing and securing multi-cloud (GCP, Azure and AWS) landing zones.
- Familiar with implementing and securing CICD pipelines on GitHub and GitLab.
- Support sales teams during client calls, by delivering and demonstrating POCs, fronting technical queries and preparing demos when Solution Architects are unavailable.
- Support customer success team by providing L1 to L3 technical support and training materials.
- Increased company product offerings by attaining technical verification/certifications.

Air Force Engineering Officer (Avionics) – Republic of Singapore Air Force, Singapore, Jan 2017 – Aug 2021

- Developed multiple Android Applications one of which was integrated with GovTech's TraceTogether (COVID-19 tracing app). The success of these collaborations proved the need for a new capability which resulted in the launch of the RSAF Agile Innovation and Digital (RAiD) department.
- Responsible for the airworthiness of the avionics and electrical system of the F-15SG, AH-64D and S-70B.
- Led multiple teams in country and overseas to provide maintenance support and recovery for AH-64Ds.

CERTIFICATIONS

<u>Certified Kubernetes Administrator</u>	<u>Azure Solutions Architect Expert</u>
<u>GCP Professional Cloud Architect</u>	<u>Azure DevOps Engineer Expert</u>
<u>GCP Professional Cloud Developer</u>	<u>Azure Developer Associate</u>
<u>GCP Professional Google Workspace Administrator</u>	<u>Azure Data Engineer Associate</u>
<u>GCP Professional Cloud DevOps Engineer</u>	<u>Azure Network Engineer Associate</u>
<u>GCP Associate Cloud Engineer</u>	<u>Azure Security Engineer Associate</u>
<u>GCP Looker LookML Developer</u>	<u>Azure Administrator Associate</u>
<u>Certified ScrumMaster</u>	<u>DataDog Technical Specialist Certification</u>
<u>Certified Scrum Product Owner</u>	<u>AWS Certified Solutions Architect – Professional</u>
<u>Snowflake SnowPro Core</u>	<u>AWS Certified DevOps Engineer – Professional</u>
	<u>AWS Certified SysOps Administrator – Associate</u>

LANGUAGES

English – Native Speaking and Writing Proficiency
Mandarin (Simplified Chinese) – Conversational Speaking and Writing Proficiency

EDUCATION

University of Manchester, Manchester, United Kingdom
MEng in Electrical and Electronics Engineering, 2013 –2016