

# Jerome Lieow

<https://www.linkedin.com/in/jeromelieow/>

Contact:

[mail@jeromelieow.com](mailto:mail@jeromelieow.com)

+6590701512

Multi Cloud and Kubernetes Certified Solution Architect at Cloud Mile, a Google Premier Partner. 8 YOE in full stack, Cloud, DevOps and Platform Engineering.

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## PROFESSIONAL EXPERIENCE

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

- Perform discovery to understand customer's business goals to technical solutions and architecture designs.
- Architect and deploy workloads on AWS, Azure, GCP, Government Commercial Cloud (GCC1.0 and GCC2.0) 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 above 99% app stability (based on firebase analytics).
- Automated deploying and cleaning up AWS multi-account environments via AWS and GCP for students of Institutes of Higher Learning (IHL).
- Worked on opportunities with public sector organizations such as MINDEF, HTX, AGC and IHLs
- Architected GenAI solutions from blueprint creation to deployment.

### **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 CI/CD 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.

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## CERTIFICATIONS

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<a href="#">Certified Kubernetes Administrator</a>	<a href="#">Azure Solutions Architect Expert</a>
<a href="#">GCP Professional Cloud Architect</a>	<a href="#">Azure DevOps Engineer Expert</a>
<a href="#">GCP Professional Cloud Developer</a>	<a href="#">Azure Developer Associate</a>
<a href="#">GCP Professional Google Workspace Administrator</a>	<a href="#">Azure Data Engineer Associate</a>
<a href="#">GCP Professional Cloud DevOps Engineer</a>	<a href="#">Azure Network Engineer Associate</a>
<a href="#">GCP Associate Cloud Engineer</a>	<a href="#">Azure Security Engineer Associate</a>
<a href="#">GCP Looker LookML Developer</a>	<a href="#">Azure Administrator Associate</a>
<a href="#">Certified ScrumMaster</a>	<a href="#">AWS Certified Solutions Architect – Professional</a>
<a href="#">Certified Scrum Product Owner</a>	<a href="#">AWS Certified DevOps Engineer – Professional</a>
<a href="#">DataDog Technical Specialist Certification</a>	<a href="#">AWS Certified SysOps Administrator – Associate</a>
<a href="#">MongoDB Associate Database Administrator</a>	<a href="#">Snowflake SnowPro Core</a>
<a href="#">MongoDB SI Associate Certification</a>	<a href="#">Snowpro Advanced: Architect</a>

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## LANGUAGES

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

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## EDUCATION

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University of Manchester, Manchester, United Kingdom  
MEng in Electrical and Electronics Engineering, 2013 –2016  
Singapore Polytechnic  
Aerospace Electronics, 2009 – 2012