Jerome Lieow

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Multi Cloud and Kubernetes Certified Senior Solutions Engineer at CloudMile, an MSP delivering multi cloud services. 3 YOE in full stack development. 4 YOE in Cloud/DevOps/Platform.

PROFESSIONAL EXPERIENCE

Senior Solutions Engineer - Cloud Mile Pte Ltd, Singapore, Jan 2023 - Current Position

- 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 data pipelines with cloud native solutions and ISVs such as Snowflake, Fivetran and Twilio.
- Implemented GitOps on GitHub using Terraform, providing a team of 10 engineers a centralised platform to provision cloud resources on AWS and Azure. This has strengthened least privilege access and provides a traceability record for deployments.
- Developed ChatOps on Slack with GCP cloud functions using TypeScript, which provides 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.
- 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.

Solutions Engineer – Cloud Mile Pte Ltd, Singapore, Aug 2021 – Jan 2023

- 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 SEA regional sales teams during client calls, by delivering and demonstrating proof of concepts, fronting technical queries and preparing demos.
- Support customer success team by providing L1 to L3 technical support and training materials.
- Increased company product offerings by attaining technical verification/certifications.

Avionics Centre Engineering Staff Officer - Republic of Singapore Air Force, Singapore, Feb 2019 - Aug 2021

- Responsible for the airworthiness of the avionics and electrical system of the F-15SG, AH-64D and S-70B.
- Android Application Developer for the Republic of Singapore Air Force. Developed SwiftCDA, SwiftTest and SwiftMED. See "Software Development Projects" section.

Officer-in-Charge AH-64D Apache Fire Control System – Republic of Singapore Air Force, Singapore, Jan 2017 – Feb 2019

- Participated in Exercise Wallaby held in Australia (Jan Nov 2018) as the Deputy Officer in Command, leading a team of 50 technicians across 3 bases to provide maintenance support and recovery for 4 AH-64Ds.
- Led a team of 7 radar and sensor technicians working to support aircraft recovery alongside different functional teams.
- Android Application Developer for the Republic of Singapore Air Force. Developed MT-RAC application for facilitating transport approvals. See "Software Development Projects" section.

SOFTWARE PROJECTS

Terraform Manager (Python), Nov 2022 - Present,

 Adds the ability to perform targeting of Terraform resources and modules within
Python3 and across projects via YAML files improving documentation.

Competencies (Purpose)

- Terraform

- Integrates environmental variable loading keeping commands used to build multiple environments consistent, reducing human errors.
- Automated update and installation via Homebrew and Scoop on GitHub.

SwiftCDA (Android), May 2021 – Aug 2021,

• Android mobile application which disables Android Phone cameras and monitors attempted use of the camera function within a defined GPS perimeter.

Competencies (Purpose)

- Android Studio, Java (Mobile Development)
- Firebase (Authentication and Database)

SwiftTest (Android), Apr 2020 - Dec 2020,

- Android mobile application to manage COVID-19 swabs. Features include:
 - OCR for scanning Identity Card, Barcode Code 39 and QR code to quickly generate a label with the patient's full Name, NRIC and date of birth.
 - o Wireless Bluetooth printing via a Brother Label printer QL-820NWB.
 - o Storage of patient details in a cloud database.
 - o A QR code generator webapp was developed to aid in the scanning.

SwiftMED (Android), Feb 2020 - Aug 2021,

https://play.google.com/store/apps/details?id=com.swiftoffice.swiftmed

- Android mobile application designed to facilitate contact tracing with TraceTogether through Bluetooth for the COVID-19 virus. Features include:
 - A health declaration and temperature taking feature
 - Telemedicine using third party libraries
 - A COVID-19 Symptom Checker in collaboration with the National University of Singapore, Ministry of Health Singapore and National Centre for Infectious Diseases for data analytics.

Competencies (Purpose)

- Android Studio, Java (Mobile Development)
- Firebase (Authentication and Database)

Competencies (Purpose)

Android Studio, Java

(Mobile Development)

and Push Notifications)

(Authentication, Database

• React (Website)

Firebase

- **Competencies (Purpose)** • Android Studio, Java (Mobile Development)
- **Push Notifications)**
- Google Maps Platform (Submitting API requests to retrieve addresses)
- Outsystems (Database)

Military Transport Risk Assessment Mobile Application (Android), Individual Project, Nov 2016 – Jul 2017 (https://github.com/jlieow/MTRAC)

• Android mobile application to allow the submission, assessment and approval of a transport operator's risk assessment form before the start of each journey with • Firebase (Database and push notifications and database archival.

It was awarded the Chief of Defence Coin for being the Singapore Armed Forces first successful mobile application. Notable Mention: https://www.facebook.com/watch/?v=1790515461041705

CERTIFICATIONS

Certified Kubernetes Administrator GCP Professional Cloud Architect GCP Professional Cloud Developer

GCP Professional Google Workspace Administrator

GCP Professional Cloud DevOps Engineer

GCP Associate Cloud Engineer GCP Looker LookML Developer

Certified ScrumMaster

Certified Scrum Product Owner

Azure Solutions Architect Expert Azure DevOps Engineer Expert Azure Developer Associate Azure Data Engineer Associate **Azure Network Engineer Associate**

Azure Security Engineer Associate Azure Administrator Associate

DataDog Technical Specialist Certification

AWS Certified Solutions Architect – Professional AWS Certified DevOps Engineer - Professional

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