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. 3 YOE in Cloud/DevOps/Platform. Ex Avionics Engineer from the Singapore Air Force.

PROFESSIONAL EXPERIENCE

Senior Solutions Engineer – Cloud Mile Pte Ltd, Singapore, Jan 2023 – Current Position
- Implemented GitOps on GitHub using Terraform providing a team of 5 engineers a platform to provision cloud resources on AWS and Azure. This has removed the need for developers to hold production credentials, ensuring least privilege access to the cloud environment and providing 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 with Terraform 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.
- Provide training and mentorship for internal and external engineers for our customers.

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. Details can be found in the "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. Details can be found in the "Software Development Projects" section.

SOFTWARE PROJECTS

Terraform Manager (Python), Nov 2022 – Present,
- Allows users to perform stateful targeting of Terraform resources and modules via a yaml file which improves documentation.
- Integrates environmental variable loading during the build process keeping commands used to build staging and prod environments consistent, reducing human errors.

Competencies (Purpose)
- Python3
- Terraform

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 (Login Authentication and Database)

SwiftTest (Android), Apr 2020 – Dec 2020,
- Android mobile application to manage COVID-19 swabs. Features include:
  o 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.

  A separate website created to generate QR codes can be found here: https://swifttest-qr.web.app/

Competencies (Purpose)
• Android Studio, Java (Mobile Development)
• Firebase (Login Authentication and Database)
• React (Website)

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:
  o A health declaration and temperature taking feature
  o Telemedicine using third party libraries
  o 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 (Login Authentication, Database and Push Notifications)

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 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

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

SOFTWARE LANGUAGES / FRAMEWORKS / COMMANDS / TOOLS

TypeScript	Java	AWS	Figma
Go	Flutter	Azure	DataDog
Terraform	Git	GCP	DefectDojo
Python	React	Docker	PostHog
SQL	JSON | XML | YAML	GitHub / GitLab	Postman

LANGUAGES

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

CERTIFICATIONS

Certified Kubernetes Administrator	Azure Solutions Architect Expert
GCP Professional Cloud Architect	Azure Administrator Associate
GCP Associate Cloud Engineer	Azure Developer Associate
GCP Looker LookML Developer	Azure Data Engineer Associate
GCP Professional Cloud Developer	Azure Network Engineer Associate
GCP Professional Google Workspace Administrator	Azure Security Engineer Associate
Certified ScrumMaster	DataDog Technical Specialist Certification
Certified Scrum Product Owner	

EDUCATION

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