

Jaryl Chng

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Educational Qualifications

Nanyang Polytechnic Jun 2019 – Jan 2020
Specialist Diploma in Information Systems Development
Scrum PSM I certified
** part of SkillsFuture Work-Study Programme*

Ngee Ann Polytechnic Apr 2013 – May 2017
Diploma in Information Technology (Solution Architect)
Cumulative GPA: 3.9 / 4.0
Leadership:
President of Japanese Drumming Club Division
Vice-President of School Council
** through Polytechnic Foundation Programme, skipping GCE 'O' Level*

Teck Whye Secondary School Jan 2008 – Dec 2012
GCE 'N' Level
Leadership:
President of InfoComm Club
Executive Committee Member of School Council

Certifications



Amazon Web Services (AWS)
Solutions Architect – Associate



Scrum.org
Professional Scrum Master I



BeyondTrust
Password Safe Implementation

** all certifications listed above require prerequisite examinations or technical assessments to attain*

** all certifications are verifiable at <https://www.credly.com/users/jaryl-chng>*

Work Experience

ExpressVPN	Singapore, Singapore
Software & DevOps Engineer (Internal Apps & Automation)	Mar 2021 – Present
Transition existing infrastructure to Infrastructure-as-Code (IaC) (2021 – Present)	
<ul style="list-style-type: none">• DevOps<ul style="list-style-type: none">• Converted GitHub organizations to be managed by Terraform and Terragrunt• Converted Okta account to be managed by Terraform and Terragrunt• Developed and maintain custom GitHub Actions to allow easy, interactive and non-repudiation manipulation of managed resources via GitHub Pull Requests alone• Point of contact for all custom IaC systems and processes	
Develop automations and internal applications (2021 – Present)	
<ul style="list-style-type: none">• Automation development (Python, Pytest, Bash)<ul style="list-style-type: none">• Mostly deployed to AWS Lambda or Fargate and tapping on other AWS services• Developed custom automations to manage Software-as-a-Service (SaaS) apps• Developed custom connectors for multiple SaaS apps• Developed System for Cross-domain Identity Management (SCIM) bridges for Okta to various SaaS apps• Ultimately saving countless man-hours for various tribes across the organization• Spearheaded Test Driven Development (TDD) and Pair Programming in the team• DevOps<ul style="list-style-type: none">• Developed scripts for deployments and automated testing with GitHub Actions and Serverless Framework• Configured pre-commit Git hooks for all projects to maintain code quality	
MyCareersFuture to Greenhouse Synchronizer Chrome extension (2021)	
<ul style="list-style-type: none">• Chrome extension development (JavaScript, React, Jest, React Testing Library, Cypress)• Had to find a way to “bypass” SingPass authentication<ul style="list-style-type: none">• Came up with the solution of using a Chrome extension to tap on user sessions• Saved at least 1 man-hour of Talent Acquisition staff a day, previously manually copying candidates over	
Cost Optimization (2021)	
<ul style="list-style-type: none">• Broken down various ECS Fargate services to Lambda Functions and API Gateway on AWS to save more costs where possible• Developed scheduled workflows to clean up expired or untagged AWS resources on development environment using a combination of Cloud Custodian, Github Actions and Python scripts<ul style="list-style-type: none">• Generates bi-weekly reports on Google Sheets• Shaves USD\$100-400 every month when the cleanup is run	
NebulasTree Pte Ltd	Singapore, Singapore
Identity and Access Management (IAM) Consultant	May 2019 – Feb 2021
Employee Single-Sign On project for a Singapore Bank* (2019 – 2020)	
<ul style="list-style-type: none">• Leading native Android development<ul style="list-style-type: none">• Developed using V-Key libraries to provide secure One-time Password generation with Gemalto• Back-end development (Java, Spring)<ul style="list-style-type: none">• Developed customized ForgeRock Access Manager plugins (QR code authentication and custom screens)• Developed APIs and microservices to interface with the plugins developed above• Usage of Apache JMeter for load testing and verifying of response time requirements under load• Front-end development (Java)<ul style="list-style-type: none">• Developed simple jQuery and HTML pages for ForgeRock Access Manager custom screens• System administration<ul style="list-style-type: none">• Setup ForgeRock Directory Service from scratch along with replication based on specifications	

- Customized images and deployed blue-green infrastructure using **Docker** backend for ForgeRock products
- **DevOps**
 - Created **Jenkins** build and test scripts from scratch
 - Setup automated build processes with **SonarQube**, **NexusIQ** and **Fortify**

** name redacted due to being under non-disclosure agreement whilst on the project*

Company infrastructure and processes improvement (2020)

- System administration
 - Setup company server from scratch, orchestrated using **Docker Swarm**
 - Finished courses for **OneIdentity Identity Manager**
 - Certified for **BeyondTrust Password Safe** implementation
- Process changes
 - Crafted new interview process and gathering of feedback for iterative improvement
 - Advocated active documentation on **Bookstack Wiki** for better team collaboration and communication

In-house platform-agnostic One-Time Password web plug-in project (2019)

- Leading back-end development (**Java**, **Spring**, **Junit**, **MongoDB**)
 - Work closely with RFC-4266 (HOTP) specifications for back-end logic
 - Introduced automated unit testing using **JUnit** to the team
- Leading native **Android** development (**Java**)
 - Developed sample app
- **DevOps**
 - Created **GitLab CI/CD** build and test scripts from scratch

Singapore Armed Forces	Singapore, Singapore
Platoon Sergeant	Feb 2018 – Feb 2019
2PDF 9SIR – Ops Bacinet (2018 – 2019)	
<ul style="list-style-type: none"> • Deputy shift commander for live operations • Leading and managing a platoon in conventional and urban warfare 	
Trainee	Jul 2017 – Jan 2018
Basic Military Training (2017 – 2018)	

Foglogic Inc (defunct)	California, United States of America
Software Engineer (Remote)	Jan 2017 – Jun 2017
Foglogic Platform Product Development (2017)	
<ul style="list-style-type: none"> • Back-end development (PHP, Laravel, Lumen) • Java development <ul style="list-style-type: none"> • Refactored Java SAP data collector using SAPJCo3 libraries from scratch 	
Junior Software Engineer	Jul 2016 – Dec 2016
Foglogic Platform Product Development (2016)	
<ul style="list-style-type: none"> • Back-end development (PHP, Laravel, Lumen) 	

Technical Skills

Languages / Frameworks	Proficiency (Proficient / Intermediate / Advanced)
Python	Intermediate - Advanced
Java <ul style="list-style-type: none"> • Spring 	Intermediate - Advanced
Golang	Intermediate
PHP <ul style="list-style-type: none"> • Laravel • Lumen 	Intermediate
JavaScript <ul style="list-style-type: none"> • React • NodeJS • jQuery 	Intermediate
Cloud Platforms	Proficiency (Proficient / Intermediate / Advanced)
Amazon Web Services <ul style="list-style-type: none"> • Lambda and Step Functions • Elastic Container Service (ECS and Fargate) • EC2 (Autoscaling, Spot Instances, Reserved Instances) • VPC, Security Groups • RDS (MySQL and PostgreSQL), DynamoDB • SQS and SNS • S3 	Intermediate - Advanced
Oracle Cloud <ul style="list-style-type: none"> • Compute 	Proficient
Tooling	Proficiency (Proficient / Intermediate / Advanced)
Docker <ul style="list-style-type: none"> • Docker Swarm • Docker Compose 	Intermediate - Advanced
Terraform / Terragrunt	Intermediate - Advanced
pre-commit	Intermediate - Advanced
Kong Gateway	Intermediate
Apache JMeter	Proficient - Intermediate
CI/CD	Proficiency (Proficient / Intermediate / Advanced)
GitLab CI/CD	Intermediate - Advanced
GitHub Actions	Intermediate - Advanced
Jenkins	Intermediate
CircleCI	Proficient
Drone	Proficient

Monitoring	Proficiency (Proficient / Intermediate / Advanced)
Amazon CloudWatch	Intermediate
Sentry	Intermediate
Grafana	Proficient
Prometheus	Proficient
Splunk	Proficient

Databases / Data Stores	Proficiency (Proficient / Intermediate / Advanced)
MariaDB / MySQL	Intermediate
PostgreSQL	Intermediate
DynamoDB	Intermediate
Microsoft SQL	Proficient - Intermediate
MongoDB	Proficient - Intermediate
Redis	Proficient - Intermediate
Directory Services	Proficient

Enterprise Software	Proficiency (Proficient / Intermediate / Advanced)
Workato	Intermediate
Greenhouse	Intermediate
BeyondTrust Password Safe	Proficient - Intermediate
ForgeRock Access Manager	Proficient
ForgeRock Directory Services	Proficient
OneIdentity Identity Manager	Proficient

Operating Systems / Distros	Proficiency (Proficient / Intermediate / Advanced)
Arch Linux	Intermediate - Advanced
Alpine Linux	Intermediate - Advanced
Raspbian / DietPi	Intermediate - Advanced
Red Hat Enterprise Linux	Intermediate
Windows	Intermediate