

# Jaryl Chng

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Website: <https://jarylchng.com> | Git: <https://gitlab.com/jarylc> | LinkedIn <https://linkedin.com/in/jarylc>

## Educational Qualifications

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**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

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**Amazon Web Services (AWS)**  
Solutions Architect – Associate



**Scrum.org**  
Professional Scrum Master I



**BeyondTrust**  
Password Safe Implementation  
(Expired 28 Sep 2022)

\* *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

<b>ExpressVPN</b>	<b>Singapore, Singapore</b>
<b>Senior Software Engineer (Cloud / DevOps / Tooling)</b>	<b>Mar 2021 – Sep 2022</b>
<b>Transition existing infrastructure to Infrastructure-as-Code (IaC) (2021 – 2022)</b> <ul style="list-style-type: none"> <li>• <b>DevOps</b> <ul style="list-style-type: none"> <li>• Converted <b>GitHub</b> organizations to be managed by <b>Terraform</b> and <b>Terragrunt</b></li> <li>• Converted <b>Okta</b> account to be managed by <b>Terraform</b> and <b>Terragrunt</b></li> <li>• Converted <b>Google Workspaces</b> resources to be managed by <b>Terraform</b> and <b>Terragrunt</b></li> <li>• Developed and maintain custom <b>GitHub Actions</b> to allow easy, interactive and non-repudiation manipulation of managed resources via <b>GitHub</b> Pull Requests alone</li> <li>• Point of contact for all custom IaC systems and processes</li> </ul> </li> </ul>	
<b>Develop automations and internal applications (2021 – 2022)</b> <ul style="list-style-type: none"> <li>• <b>Automation</b> development (<b>Python</b>, <b>Pytest</b>, <b>Bash</b>) <ul style="list-style-type: none"> <li>• Mostly deployed to <b>AWS Lambda</b> or <b>Fargate</b> and tapping on other AWS services</li> <li>• Developed custom automations to manage Software-as-a-Service (SaaS) apps</li> <li>• Developed custom connectors for multiple SaaS apps</li> <li>• Developed <b>System for Cross-domain Identity Management (SCIM)</b> bridges for <b>Okta</b> to various SaaS apps</li> <li>• Ultimately saving countless man-hours for various tribes across the organization</li> <li>• Spearheaded <b>Test Driven Development (TDD)</b> and <b>Pair Programming</b> in the team</li> </ul> </li> <li>• <b>DevOps</b> <ul style="list-style-type: none"> <li>• Developed scripts for deployments and automated testing with <b>GitHub Actions</b> and <b>Serverless Framework</b></li> <li>• Configured <b>pre-commit Git</b> hooks for all projects to maintain code quality</li> </ul> </li> </ul>	
<b>Software Engineer (Cloud / DevOps / Tooling)</b>	<b>Mar 2021 – Mar 2022</b>
<b>MyCareersFuture to Greenhouse Synchronizer Chrome extension (2021)</b> <ul style="list-style-type: none"> <li>• <b>Chrome extension</b> development (<b>JavaScript</b>, <b>React</b>, <b>Jest</b>, <b>React Testing Library</b>, <b>Cypress</b>)</li> <li>• Had to find a way to “bypass” SingPass authentication <ul style="list-style-type: none"> <li>• Came up with the solution of using a Chrome extension to tap on user sessions</li> </ul> </li> <li>• Saved at least 1 man-hour of Talent Acquisition staff a day, previously manually copying candidates over</li> </ul>	
<b>Cost optimization (2021)</b> <ul style="list-style-type: none"> <li>• Broken down various <b>ECS Fargate</b> services to <b>Lambda Functions</b> and <b>API Gateway</b> on AWS to save more costs where possible</li> <li>• Developed scheduled workflows to clean up expired or untagged <b>AWS</b> resources on development environment using a combination of <b>Cloud Custodian</b>, <b>Github Actions</b> and <b>Python</b> scripts <ul style="list-style-type: none"> <li>• Generates bi-weekly reports on <b>Google Sheets</b></li> <li>• Shaves USD\$100-400 every month when the cleanup is run</li> </ul> </li> </ul>	
<b>NebulasTree Pte Ltd</b>	<b>Singapore, Singapore</b>
<b>Identity and Access Management (IAM) Consultant</b>	<b>Jun 2019 – Feb 2021</b>
<b>Employee Single-Sign On project for a Singapore Bank* (2019 – 2020)</b> <ul style="list-style-type: none"> <li>• Leading native <b>Android</b> development <ul style="list-style-type: none"> <li>• Developed using <b>V-Key</b> libraries to provide secure One-time Password generation with Gemalto</li> </ul> </li> <li>• <b>Back-end</b> development (<b>Java</b>, <b>Spring</b>) <ul style="list-style-type: none"> <li>• Developed customized <b>ForgeRock Access Manager</b> plugins (QR code authentication and custom screens)</li> <li>• Developed <b>APIs</b> and <b>microservices</b> to interface with the plugins developed above</li> <li>• Usage of <b>Apache JMeter</b> for load testing and verifying of response time requirements under load</li> </ul> </li> <li>• <b>Front-end</b> development (<b>Java</b>)</li> </ul>	

- Developed simple **jQuery** and **HTML** pages for **ForgeRock Access Manager** custom screens
- System administration
  - 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 – May 2019
<b>2PDF 9SIR – Ops Bacinet (2018 – 2019)</b> <ul style="list-style-type: none"> <li>• Deputy shift commander for live operations</li> <li>• Leading and managing a platoon in conventional and urban warfare</li> </ul>	
Trainee	Jul 2017 – Jan 2018
Basic Military Training (2017 – 2018)	

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

## Technical Skills

Languages / Frameworks	Proficiency (Proficient / Intermediate / Advanced)
Python	Intermediate - Advanced
Java <ul style="list-style-type: none"><li>• Spring</li></ul>	Intermediate - Advanced
Golang	Intermediate
PHP <ul style="list-style-type: none"><li>• Laravel</li><li>• Lumen</li></ul>	Intermediate
JavaScript <ul style="list-style-type: none"><li>• React</li><li>• NodeJS</li><li>• jQuery</li></ul>	Intermediate

Cloud Platforms	Proficiency (Proficient / Intermediate / Advanced)
Amazon Web Services <ul style="list-style-type: none"><li>• Lambda and Step Functions</li><li>• Elastic Container Service (ECS and Fargate)</li><li>• EC2 (Autoscaling, Spot Instances, Reserved Instances)</li><li>• VPC, Security Groups</li><li>• RDS (MySQL and PostgreSQL), DynamoDB</li><li>• SQS and SNS</li><li>• S3</li></ul>	Intermediate - Advanced
Oracle Cloud <ul style="list-style-type: none"><li>• Compute</li></ul>	Proficient

Tooling	Proficiency (Proficient / Intermediate / Advanced)
Docker <ul style="list-style-type: none"><li>• Docker Swarm</li><li>• Docker Compose</li></ul>	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
Onedidentity 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