

BRIAN LIM YI SHENG (Devops Engineer)

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Github: <https://github.com/BrianLYS>

EXPERIENCE

Singapore ETH Centre

Singapore

ETH Zurich's overseas research centre, developing sustainable solutions to global challenges

Lead DevOps Engineer @ Digital Twin Labs

Oct 2023 - Present

- Migrated Application Architectures from VMs to Kubernetes Orchestrated Services and serverless.
- Scaled up HPC services to serve government agencies for policy planning, and live demo/exhibitions.
- Handle GCP/AWS Cloud Infrastructure, Deployments and Rollbacks.
- Liaise with Researchers and Software Teams to roll out new updates and requirements.
- Projects/Applications under my administration:
<https://sec.ethz.ch/research/cs.html> <https://sec.ethz.ch/research/frs.html>
[GreenHouse Gas Emissions](#), [MicroClimate Digital Platform](#), [InfraResilience](#), [Duct Explorer](#)

IBM

Singapore

Consultant for platform project

DevSecOps Engineer

Jan 2023 - Oct 2023

- Planned and executed the implementation of Artifactory, CodeDx, Scantist, and Fortify pipeline solutions as a key member of a dedicated team, enhancing the overall software development life cycle with GitLab.
- Engineered an effective user workflow, facilitating stakeholder approval and buy-in to drive forward a critical platform project.
- Gained extensive experience in implementing DevSecOps best practices, strengthening my ability to lead security-focused initiatives.
- Hone skills in stakeholder management and negotiation, vital for driving collaborative efforts in a DevOps environment.

ReferralCandy

Singapore

Referral program SAAS app, highly rated on shopify. <https://www.referralcandy.com/>

DevOps Engineer

Feb 2022 - Jan 2023

- Adminstrate ECS and Lambda-driven architecture, leading to enhanced scalability and process efficiency.
- Adminstrate Existing CI/CD pipelines using Github Actions, CodePipeline, CodeBuild, CodeDeploy, and Travis CI, accelerating software delivery leading to increased productivity and code deployment speed.
- Spearheaded the successful migration project from Cloudwatch to Datadog, enhancing monitoring and observability capabilities. Resulting in quicker issue detection and resolution times.
- Enforced security via automated cross-region backups, MFA and VPN, fortifying organisation's digital assets.
- Exercised in-depth knowledge of AWS services (Route 53, ELB, ALB, EC2, ECS, Lambda, RDS, etc.) in day-to-day operations.
- Led an initiative to reduce cloud costs by ~30% through the use of reserved instances, removing legacy applications, and optimising logging.

SKILLS

- Communication: English, Chinese
- Cloud: AWS, GCP
- Coding/Scripting Languages: Java/TypeScript, Python, PowerShell, Bash
- OS: Windows/Ubuntu/MacOS/RHEL/AL2
- IaC: CDK, Cloudformation, Terraform, Terragrunt, Kubernetes, Kustomize
- Technologies: Ansible, Serverless, SvelteKit, Django, Docker, SQL, GPT, RDBMS, Security Hardening

EDUCATION

Singapore Polytechnic

Singapore

Dip. in Biomedical Engineering

- Final Year Project: Adapted vivitro pulse duplicator to be used as an alternative to heart monitoring without surgical intervention.