Jack HU

✉ jackhu.gc@gmail.com | 🐙 Jackhu-gc | 💼 jack-hu-profile

SKILLS

Programming	Go, Groovy, C#, Python, Bash, SQL
Technologies	GCP, AWS, Gitlab, K8s, Kafka, gRPC, GraphQL, Docker, Shell, Powershell
	Jenkins, Teamcity, Terraform, Octopus Deploy, Ansible, GoCD

WORK EXPERIENCE

Workday   *Brisbane, Australia*
SOFTWARE ENGINEER (DEVOPS TOOLING)   *09/2024 – Present*

- Lead the migration of React UI repositories from TeamCity to Jenkins, consolidating DevOps tooling and achieving cost savings by replacing long-lived EC2 instances with on-demand Jenkins agents.
- Introduce back-off retry mechanism to Jenkins jobs for cross-organizational system integrations, enhancing service resiliency and mitigating the impact of intermittent service unavailability.
- Develop and enhance Jenkins pipelines to integrate with a custom auditing service, automating artifacts approval and promotion. This replaced manual processes, improving deployment security and streamlining releases for key stakeholders.
- Introduce GOPRIVATE with go mod, Golang interfaces, and zerolog library, improving code maintainability and logging.
- Relevant stack: Jenkins, Groovy, Go, Terraform, AWS, Shell, Powershell

BetMakers Technology Group   *Brisbane, Australia*
SOFTWARE ENGINEER   *09/2023 – 09/2024*

- Rewrite the legacy system to utilize Go, Kubernetes (k8s), and Google Cloud Platform (GCP) which enhanced service supportability and reduced outage and downtime.
- Introduce GCP-native monitoring and alerting to proactively detect bugs, service restarts, and CPU/memory stress, enhancing observability and reducing downtime and support calls
- Migrate 100+ services to managed Google Kubernetes Engine (GKE) clusters and switch from DataDog to GCP native logging and monitoring. This cost-saving project resulted in savings exceeding $20K+ monthly.
- Relevant stack: Go, Gitlab, GCP, GKE

The Lottery Corporation   *Brisbane, Australia*
SOFTWARE ENGINEER   *09/2022 – 09/2023*

- Lead the design and maintenance of a shared GitLab-CI pipeline, successfully migrating 90% of .Net API services from Github/Teamcity build to GitLab, improving development efficiency and streamlining the CI/CD process
- Responsible for APIs utilized by the Lott Retail & MarTech teams as part of a large-scale modernization initiative that revitalizes 4000+ outlets, aiming to increase operational efficiency and customer satisfaction
- Collaborate with team leads to modernize Retail Terminal and Transaction Processing integration, adopting an API-driven architecture for greater scalability and interoperability
- Relevant stack: .Net 6, OAS 3.0, GitLab, Octopus, Windows onPrems, ECS, Lambda, DynamoDB, Chef, Terraform

Tabcorp   *Brisbane, Australia*
DEVOPS ENGINEER   *08/2020 – 08/2022*

- Enhance and maintain GoCD/Ansible/CloudFormation infrastructure-as-code (IAC) pipelines for a legacy LAMP stack
- Explore and implement monitoring and alerting capabilities on a regulated legacy application using the ELK (Elasticsearch, Logstash, Kibana) stack
- AWS services utilised - ECS fargate, EC2, RDS, EFS, Lambda, SQS, SES, Route53, S3, SSM

EDUCATION

Queensland University of Technology   *Brisbane, Australia*
BACHELOR OF INFORMATION TECHNOLOGY, MAJOR IN COMPUTER SCIENCE   *2018 - 2020*

- GPA: 6.625 / 7.00
- Relevant Coursework: Cloud Computing, Programming Paradigms, Systems Programming, Machine Learning

CERTS

- AWS Certified Developer - Associate
- AWS Certified Solutions Architect - Associate   *2024*