Jack HU

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

SKILLS

Programming	Go, Groovy, C#, Python, Bash, SQL
Technologies	GCP, AWS, Gitlab, k8s, 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 all React UI repositories within the Planning organization 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.
- Key contributor to the integration of an auditing service, enabling key stakeholders to efficiently approve and promote deployment artifacts, replacing manual intervention, and improving deployment security and streamlining the release process.
- Modernised Golang services by introducing GOPRIVATE with go mod, Golang interfaces, and zerolog logging library, improving code maintainability and logging efficiency.
- 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), while consistently introducing new features to existing services. This initiative aimed to enhance service support-ability and reduce outage and downtime.
- Pioneer the development of monitoring and alerting systems using native GCP metrics and monitoring tools. This proactive approach allowed for the preemptive identification of potential bugs, service restart issues, and stressed memory and CPU usage, ultimately improving service observability and aiming to reduce support calls and system downtime.
- Perform migration of over 100 services from custom Google Kubernetes Engine (GKE) clusters to managed clusters and the transition from DataDog to GCP native logging and monitoring. This cost-saving project resulted in savings exceeding 20,000 USD/month.
- Contribute to designing and implementing a more robust event-driven architecture for the existing system, aiming to improve service stability.
- 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 closely with team leads to help modernize the existing layer between the Retail Terminal System and Transaction Processing System into an API-driven architecture, resulting in enhanced scalability, flexibility, and interoperability
- Deliver additional API features requested by the Lott Retail & MarTech teams, displaying commitment to meeting business needs and expanding technical skill set
- Resolve production incidents as part of the oncall support, swiftly troubleshooting and resolving issues while collaborating with cross-functional teams to minimize downtime and ensure system stability
- 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

- Contribute to enhancing and maintaining the pipeline code of a self-deployable GoCD server, gaining practical experience in continuous integration and deployment practices
- Enhance and maintain GoCD/Ansible/CloudFormation infrastructure-as-code (IAC) pipelines for a containerized legacy LAMP stack
- Collaborate with multiple teams to liaise and improve the git branching strategy within a single repository to streamline development processes
- 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

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