CALVIN BUI

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SENIOR DEVOPS ENGINEER - AUTOPILOT
Apr 19 - Present

Environment
- Only Ops Engineer
- End-to-end: code builds, infrastructure, deployments, monitoring and backups
- Monolithic, microservices and serverless architecture
- Supporting 20 engineers (back-end, front-end and QA), 5000 customers and 150 servers
- Reporting to Director of Engineering

Responsibilities
- Manage Amazon Web Services (AWS): EC2, EKS, RDS, S3, Lambda, Cloudfront, IAM, Route 53
- Manage Google Cloud Platform (GCP): GCE, GKE, GCS, IAM, LB, Cloud Functions
- Manage Rackspace: Cloud VMs
- MongoDB Atlas and ScyllaDB Cloud - Cluster management, user management and monitoring
- Manage Kubernetes clusters within GKE and EKS with deployments through Helm and Terraform
- Develop and maintain CI/CD pipelines for all projects and their build agents in Buildkite
- Building infrastructure using Terraform Enterprise and Packer
- Configuration management using Ansible and AWX (Ansible Tower)
- Monitoring, logging and alerting with Prometheus, Datadog, PagerDuty, Kibana and Beats
- Automation and scripting with Bash/Shell, Python and Golang
- Manage internal IT - networking (Ubiquiti), purchases and on/off-boarding

Key Achievements
- Uplifted the Data Science workflow & infrastructure with Docker, Buildkite, Terraform, Vault & GCP
- Introduced & championed Kubernetes which is now running ~80% of all new applications
- Streamlined Kubernetes deployments with a Python tool combining Docker, GCR/ECR and Helm
- Design, deployment, configuration of monitoring and logging systems
- Introduced Chaos Engineering to build high availability into new products

DEVOPS ENGINEER - COATES GROUP
Oct 17 - Apr 19

Environment
- Team of 3 Ops Engineers
- End-to-end: code builds, infrastructure, deployments, monitoring and backups
- Microservices architecture
- Supporting 20 developers, 40 customers and 20000 devices (Intel NUCs) worldwide
- Reporting to Lead Ops Engineer

Responsibilities:
- Manage Amazon Web Services (AWS): EC2, RDS, S3, Lambda, IAM, CloudFormation, VPC, SES
- Manage Google Cloud Platform (GCP): GSuite, IAM, Billing, SSO via Office 365
- Management of GitLab, GitLab CI, Confluence and JIRA
- Deployments (Prod & Internal) using Docker container orchestration (Rancher)
- Level 3 support for Switchboard CMS software when tickets are escalated through Zendesk
- Configuration management using Saltstack
- Manage internal network - Sophos, VLANs, Cisco Meraki
- Proactive monitoring through Prometheus, AlertManager and Grafana
- Automation and scripting with Bash/Shell and Python
- Upskilling and training of Ops practices in overseas offices

Key Achievements
- Design of Elastic Stack (ELK) deployment using Saltstack for log management
- Design and development of AWS Load Balancers through CloudFormation with Python (boto3)
- Design, configuration and migration to RDS Aurora from MySQL with CloudFormation
- Introduced Kanban to the team with JIRA and associated agile ceremonies
- Automated migration of projects from GitLab.com to GitLab EE (+ Git LFS projects)
- Co-designed the Release Management process with Git and container orchestration
- Implemented SSO/LDAP authentication for all engineering-related tools
- Reduced AWS bill with consolidated billing, reserved instances and rightsizing

Nov 16 - Oct 17	**DEVOPS ENGINEER** **COMMONWEALTH BANK OF AUSTRALIA**
Feb 16 - Nov 16	**GRADUATE** **COMMONWEALTH BANK OF AUSTRALIA**
Mar 15 - Dec 15	**TECHNICAL SUPPORT OFFICER** **E-FLO COMPUTERS**
Feb 14 - Feb 15	**INNOVATIONS CENTER TECHNICAL INTERN** **IBM**

PORTFOLIO & PROJECTS

- Development Projects: https://github.com/calvinbui
- 3D Modeling and 3D Printing: https://www.thingiverse.com/calvinbui/designs
- Blog: https://calvin.me

EDUCATION

2012 - 2015	**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY** UNIVERSITY OF TECHNOLOGY, SYDNEY Graduated with Distinction

CERTIFICATIONS, AWARDS & ACTIVITIES

- USYD BISA Mentor (2017)
- VMware vSphere 6 Masterclass Short Course (2016)
- Fairfield OzTag Mens Opens (2016)
- Full Drivers & Motorcycle Licence (2015)
- IBM DB2 Academic Associate (2014)
- Agile Project Management Short Course (2013)
- UTS Discovery Day Team Leader (2013)
- Cisco Certified Entry Networking Technician (2012)
- Languages: English (native) & Vietnamese (proficient)