



• SENIOR DEVOPS ENGINEER - AUTOPILOT

Apr 19 - Present

Environment

- Only Ops Engineer
- Repensible end-to-end - building code and infrastructure, deployments, monitoring and backups
- Monolithic, microservices and serverless architecture
- Supporting 20 developers, 5000 customers and 150 servers
- Reporting to Director of Engineering

Responsibilities

- Amazon Web Services (AWS) - EC2, RDS, S3, Lambda, IAM, ECS, Route 53
- Google Cloud Platform (GCP) - GCE, GKE, GCS, IAM, LB, Cloud Functions
- Rackspace - Cloud VMs
- MongoDB Atlas and ScyllaDB Cloud - Cluster management, user management and monitoring
- Manage Kubernetes Clusters in GKE and deployments via Helm
- Build and maintain CI/CD pipelines in Buildkite and Travis CI
- Building infrastructure using Terraform Enterprise and Packer
- Configuration management using Ansible and AWX
- Integrating secrets management using Hashicorp Vault
- Manage internal IT - networking (Ubiquiti), purchases and on/off-boarding
- Monitoring and alerting through Datadog, PagerDuty and Rackspace
- Automation and scripting with Bash/Shell, Python and Golang

Key Achievements

- Uplifted the Data Science workflow & infrastructure with Docker, Buildkite, Terraform, Vault & GCP
- Introduced & championed Kubernetes which is now running ~70% of all new applications
- Streamlined Kubernetes deployments by creating a Python tool that abstracts away Docker, GCR, and Helm for engineers
- Introduced Chaos Engineering to build high availability into new products

• DEVOPS ENGINEER - COATES GROUP

Oct 17 - Apr 19

Environment

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

Responsibilities:

- Amazon Web Services (AWS) - EC2, RDS, S3, Lambda, IAM, CloudFormation, VPC, SES
- 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 through tickets escalated using 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, configuration and deployment of AWS Elastic Load Balancers (ELB) through CloudFormation programatically with Python (boto3 library)
- 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 & Provisional 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)