


HASSAM MALIK

DevOps/DevSecOps Lead Engineer



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EDUCATION

MASTER OF INFORMATION TECHNOLOGY

University of New South Wales
Sydney, Australia

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

National University of Computer and Emerging Sciences

CERTIFICATIONS & HONORS

- AWS Certified DevOps Engineer – Professional
- AWS Certified Solutions Architect – Associate
- Transport for New South Wales – Above & Beyond Award
- AWS Hackathon Multi-Country 2020 – Finalist

PROFILE

- **Australian Citizen**
- AWS Certified DevOps Engineer
- Over 12+ years of expertise in planning, designing, and implementing system applications in hybrid and cloud environments
- Excellent exposure to AWS cloud, container orchestration, software configuration management, build & release process setup.
- Configured many Continuous Integration and Continuous Delivery using various platforms and tools

EXPERIENCE

ASSOCIATE DIRECTOR CONTAINER PLATFORM

S&P Global

01-2020- Present

S&P Global is a Fortune 500 American corporation. It is the parent company of S&P Global Ratings, S&P Global Market Intelligence, S&P Global Platts, CRISIL and S&P Dow Jones Indices.

- Product Owner of Container Platform.
- Running Kubernetes as a service for internal developers and application teams, with modern DevSecOps, micro-services and container-based development practices.
- Refactor monolithic applications to micro-services and component based architectures.
- Building/Maintaining container platforms managed by Kubernetes on EKS, AKS, ECS and DockerEE.
- Manage Kubernetes deployments using Helm. Create reproducible builds of the Kubernetes applications, manage Kubernetes manifest files and manage releases of Helm packages.
- Enhance, manage, and monitor AWS cloud infrastructure and systems.

SKILLS

- Amazon Web Services (AWS)
- Infrastructure as code (IaC)
- Terraform, Terragrunt
CloudFormation
- Docker
- Docker Orchestration (EKS, ECS, Kubernetes, Docker Swarm, DockerEE)
- Service Mesh
- ArgoCD GitOps
- Python, Node.js, Perl, JavaScript
- Configuration Management (Ansible, Puppet, AWS OpsWorks, AWS Systems Manager)
- CI/CD Pipeline (Jenkins, Azure DevOps, AWS Code Pipeline, AWS Code Build, AWS Code Deploy)
- Serverless (Lambda, Kubeless)
- Java (J2SE, J2EE, JSP, JSF)
- Operating Systems (Amazon Linux, Unix/Linux, RedHat, Windows)
- Source Control (GIT, Bit-bucket, Code Commit)
- Scripting (Bash Scripting, PowerShell Scripting)
- Web Services (Restful Services, Data Services, BPMN, BPEL)
- Databases SQL, PL/SQL
- RSA (cryptosystem)
- XSLT
- Agile/Scrum Methodology
- Networking (OSI Mode, TCP/IP protocol suite-IP, TCP, UDP, FTP, DNS, DHCP, Subnetting, NAT, CIDR, ICMP, Switching & Routing)
- Cisco Meraki
- Fortinet
- Site-to-Site VPN
- Client VPN

- Develop Terraform modules to manage configurations, applications, services and automate infrastructure provisioning.
- Self-Service tooling for client teams, so they can onboard themselves to EKS clusters and perform BAU tasks on their Kubernetes resources.
- Responsible for Development Security Operations (DevSecOps)
 - Automate deployment and configurations of AWS Fundamental security services, WAF, IDS/IPS, vulnerability scanning & cloud/security compliance monitoring frameworks. Using terragrunt & terraform modules.
 - CIS Hardening of base golden amazon machine images and container images using packers
 - Container runtime security
 - Implementation of SingleSignOn using SAML
 - Deploy and manage Security information and event management (SIEM)

AWS PLATFORM SPECIALIST

Transport for NSW

07/2017 - 01/2020

Transport for NSW is a statutory authority of the New South Wales Government that was created on 1 November 2011 to manage the transport services in the state of New South Wales, Australia.

- Based on the client side, at Transport for NSW (TfNSW).
- Working in the Strategy and Architecture team of TfNSW.
- Supporting existing AWS accounts and environments of TfNSW.
- New AWS accounts creation and setup under TfNSW organisation
- Provisioning new environments & stacks for the new initiatives and teams.
- Providing solutions for both hybrid and public cloud
- Building infrastructures for automated deployments and setup of multi-container applications through Docker and Kubernetes.
- Building server-less applications for RMS and TfNSW.
- Earned "TfNSW above and beyond" employer award (<https://www.linkedin.com/feed/update/urn:li:activity:6443263576869257216>)

AWS PLATFORM SPECIALIST

Datacom Group Ltd

07/2017 - 01/2020

Datacom is an AWS Premier Consulting Partner, one of a select number of such partners in the APAC region (just 67 worldwide).

- Providing cloud infrastructure and application migrations, by offering proactive monitoring, automation and management of environments.
- Automation, of multi-account AWS environment setups, by ensuring governance, security and reliability

- IPS (intrusion prevention system)
- IDS (intrusion detection system)
- AWS Identity and Access Management (IAM)
- AWS IAM Identity Center (successor to SSO)
- Amazon Cognito
- Active Directory & AWS Directory Service
- AWS Resource Access Manager
- AWS Organisations
- AWS Security Hub
- Amazon GuardDuty
- Amazon Inspector
- Amazon Security Lake
- AWS Config
- Amazon CloudWatch
- AWS CloudTrail
- AWS IoT Device Defender
- AWS Firewall Manager
- AWS Network Firewall
- AWS Shield
- AWS Verified Access
- AWS Web Application Firewall (WAF)
- Amazon Route 53 Resolver DNS Firewall
- Amazon Macie
- AWS Key Management Service (AWS KMS)
- AWS CloudHSM
- AWS Certificate Manager
- AWS Private Certificate Authority
- AWS Secrets Manager
- Amazon Detective
- AWS Elastic Disaster Recovery
- AWS Artifact
- AWS Audit Manager

- Deliver professional services engagements with partners and customers
- Day-to-day cloud infrastructure management & operations

DEVOPS AND INFRASTRUCTURE ENGINEER

Seven West Media

11/2016 - 07/2017

Seven West Media is one of Australia's leading integrated media companies, with a market-leading presence in broadcast television.

- Maintain and Develop AWS Cloud infrastructure for broadcasting the live streams.
- Manage network services in cloud such as Content delivery networks (Akamai, CloudFront) and DNS servers
- Implement CI/CD pipelines for all platforms with the Gitflow model.
- Implement Lint and Jacoco code testing in CI/CD.
- Set up features-based environment using Docker and ECS.
- Maintain and Develop AWS Cloud infrastructure for broadcasting live streams.
- Design best practices for daily incremental backups, and whole infrastructure
- Work with Jenkins for Continuous Integration and Continuous Deployment
- Monitor with APIs and broadcast streams using NewRelic and PagerDuty

SYSTEM ADMINISTRATOR

Asmex.digital

03/2015 - 11/2016

- Responsible for architecting and building highly available, scalable and resilient infrastructure in AWS with strong focus on security and automation
- Restructured AWS infrastructure from traditional EC2 servers, to ECS clusters using Docker.
- Created Puppet environment to ensure up time
- Migrate client server data to ECS Clusters using docker technology on AWS cloud.
- Contribute in software development and help developers to meet deadlines, we developed softwares using modern coding techniques.

- Wazuh - Security Platform
- DataDog
- FluentD
- Elasticsearch, Logstash, and Kibana
- Amazon CloudWatch
- Prometheus, Grafana
- Systems capacity planning and Optimisation
- Cpanel, Virtualmin, Webmin
- WordPress
- HTML/CSS

SOFTWARE DEVELOPER

Automotive Research Company (ARC)

09/2014 - 03/2015

- Develop different online platforms in ASP.net for Automotive Dealers.
- Use spatial analysis and data mining techniques to unlock sales opportunities for car dealers all over the Sydney region.
- Migrated application from in-house servers to AWS

SOFTWARE ENGINEER

Information Architects

06/2012 - 02/2013

- Worked with SQL and PL/SQL to perform ETL over a telecom company data. Also worked on different sources of telecom data and catered them in an efficient way so that BI could be done to meet the reporting requirements of the telecom Company
- Was responsible for production of different Business Intelligence reports using modern Business Intelligence tools.
- Developed Oracle OLAP cubes to reduce the query time for the calculation of different KPIs at different aggregation levels.
- Managed jobs and responsibilities of Database Administrator on Oracle DB running over Oracle Sun SPARC Enterprise and Oracle Solaris.
- Participated in user training and helped them learn how they could generate their daily BI reports by defining calculations and KPIs. And how they could modify existing cubes if they want to add measures or dimensions to an existing cube.

JUNIOR SOFTWARE DEVELOPER

Fliegen IT Solutions

05/2011 - 06/2012

- Ensure integrity and accuracy of data and applications through analysis and coding.
- Convert functional requirements and change requests into technical specifications.
- Convert business needs into client applications and give user training
- ETL and Database modeling.
- Developing dashboards, Graphs and other reporting Solutions.
- Managed jobs and responsibilities of Database Administrator on Oracle DB running over Oracle Sun SPARC Enterprise and Oracle Solaris.