

# Ritesh Bhavsar

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## Profile

A cloud focussed devops engineer / lead / hands on architect with a high level of expertise in cloud computing, particularly AWS and GCP, who is competent in linux, containerisation and serverless platforms. Possesses vision for an ideal product focussed platform; able to bring about elegant solutions for automation, with platform security and maintainability in mind while thinking of infrastructure as a whole.

## Skills - technical

- Extensive experience with cloud infrastructure - deep knowledge of AWS, expertise with GCP.
- Awareness of cloud best practises, to build scalable, resilient systems.
- Importance of security best practices with regards to applications running in the cloud.
- Experience of large scale infrastructure automation with Terraform.
- Docker orchestration
- CI/CD with Jenkins, Bamboo, Gitlab.
- Configuration management with Chef, Ansible.
- Containerisation with Docker.
- Strong scripting skills - particularly bash as an every day 'glue' and python for more involved scripts.
- Excellent knowledge of operating systems - particularly Ubuntu, RHEL, Cent OS, Amazon Linux, Solaris.
- Excellent knowledge of internet based web delivery - web servers, caching layers, content delivery networks.
- Good knowledge of databases (mysql, oracle), networking, tcp/ip, general understanding of how things work.
- Smooth service migrations - Cloud instance (eg ec2) -> Cloud container (docker); On prem (eg vmware) -> Cloud; On prem (eg Solaris) -> On prem (linux).

## Skills - other

- Highly numerate and logical in thought. Meticulous, appreciates the importance of details.
- Calm persona, able to think clearly when under pressure.
- Strong team player; advocate of pairing.
- Good communication skills, able to convey ideas and facts both clearly and concisely.
- Working on greenfield projects to deliver MVP. Able to work within a mixed team with the aim of upskilling team members to have infra / automation code maintained by all.

## Experience

### Devops Engineer

**Virtusa Corporation, 26 Finsbury Square, London, EC2A 1DS (client)**

**NatWest Markets, 250 Bishopsgate, London, EC2M 4AA (end client)**

**January 2019 - August 2019**

NatWest Markets are embarking on a project to migrate all of their applications out of their current data centre, with GCP being one destination. Partnering Google through Virtusa, we're aiming to build a platform on GCP which applications can migrate to.

As part of the migration team, worked on understanding current applications and their current design and implementation. Designed 'to be' architectures within GCP for a 'lift and shift' style move, as a first stage cloud move.

Also spent some time working on the 'platform engineering' side of the programme, to help deliver the platform mvp, on which applications are to be migrated to. Working on services to be built via a combination of terraform to provision infrastructure, packer with the GCP provisioner and ansible to bake images, all coordinated with gitlab.

**Devops Engineer****HSBC, Blue Fin, 110 Southwark St, London SE1 0SU****December 2017 - January 2019**

The VAM (Value Added Messaging) team within the HSBC Digital organisation are creating a serverless cloud based platform to process events coming from transactions. The aim of this is to incorporate Monzo like push notifications to the HSBC banking app.

As part of a team of devops engineers, where in the transition stage I supported the team as a lead, working in scrum, we designed and implemented pipelines in jenkins to build our serverless AWS infrastructure from the ground up and build and deploy java code to our (mainly) lambda containers. The aim was to have build as code, in addition to infra as code to give us confidence and repeatability. Regarding technologies, infrastructure was built predominantly with terraform; the application layer was built with AWS SAM. We have some ec2 instances for which amis were built using a combination of Ansible and Packer.

The end result was a product which went live in December 2018, albeit in a phased fashion, with a subset of functionality being called.

**Devops Engineer****HMRC, Dorset House, Stamford Street, London, SE1 9NT****April 2017 - November 2018**

HMRC's digital applications (eg self assessment) run on a platform as a service, which product teams use to deploy and run their applications. Applications run within docker containers on the platform.

The platform was previously run across 2 different hosting providers. Joined the core infrastructure team to help with a successful migration to AWS. The new platform is built entirely using Terraform, using Packer to build ec2 images, providing various functions for the platform. Jenkins is used for CI / CD.

**Devops Engineer****Telegraph Media Group, 111 Buckingham Palace Road, London, SW11 0DT****September 2011 - March 2017**

Started at TMG as part of the web operations team, responsible for the operation of all of TMG's web sites and backends delivering content for TMG's mobile and tablet apps. Services were run in linux / unix hosts initially on a mixture of solaris and ubuntu on vmware, which we later migrated to AWS.

Later on TMG went through a DevOps journey which meant working in cross functional product teams. Initially worked on the 'infrastructure' piece which meant the foundations of the new AWS accounts our products were to be launched in.

Finally worked within the platform and commerce product teams. My last piece of work within the commerce team was to deliver TMG's first fully dockerised product to production, running on AWS ECS.

**Operations, Identity Management Systems**  
**Morgan Stanley, 25 Cabot Square, London, E14 4QA**  
**August 2010 - August 2011**

Working in the ESD 'Engineering Support Development' team, supporting the firm's IdM (Identity Management) systems for the EU time zone. Acted as L3 support, was an escalation point for L2, took part in an on call rota and was responsible for production changes and deployments.

**Systems Administrator**  
**Xbridge Ltd (renamed Simply Business), One Finsbury Square, London, EC2A 1AE**  
**April 2007 - August 2010**

Xbridge Ltd sells financial products, mainly business insurance through various websites, the main brand being Simply Business. Working within a multi-disciplinary team, responsible for all aspects of office, development, qa and production infrastructure in relation to unix/linux systems and oracle databases.

**Systems Administrator**  
**Accenture, 60 Queen Victoria Street, London, EC4N 4TW**  
**November 2005 - March 2007**  
**Client: DWP PTP**

Pension Transformation Programme is designed to transform the Pension Service. Worked in systems administrator in a heavily scripted Solaris environment.

**Software Engineer**  
**Accenture, 60 Queen Victoria Street, London, EC4N 4TW**  
**July 2004 - October 2005**  
**Client: MHRA**

MHRA are a government agency ensuring the standards and safety of medical products, and medical equipment. Accenture provided a workflow solution, named the 'Sentinel' project. Initially worked within various teams, performing QA on our web applications. My final role was within a team migrating both data and documents to our new system using technologies such as VB (DFC) and Perl (generation of DQL).

**Web Developer**  
**Credit Suisse First Boston, One Cabot Square, E14 4QJ**  
**April-October 2002 (work placement)**

The transaction services team support market data applications and exchange links. As a member of the team my role was the redevelopment and maintenance of their intranet site.

## **Education and Training**

**2019** Google Cloud Certified - Associate Cloud Engineer  
**2018** AWS Certified DevOps Professional  
**2016** AWS Certified SysOps Associate  
**2014** Advanced Operations on AWS (course)  
**2014** Amazon Web Services Systems Operations on AWS (course)  
**2013** Chef Fundamentals (course)  
**2013** Akamai University (course)  
**2013** MySQL for Database Administrators (course)  
**2009** Oracle Database 10g: Administration I (course)  
**2008** Sun Certified Network Administrator for Solaris 10  
**2006** Sun Certified System Administrator for Solaris 10  
**2004** Sun Certified Programmer for the Java 2 Platform 1.4

### **1999 – 2003**

Imperial College, London  
MEng Computing 2:2 (Hons)

### **1991-1999**

Queen Elizabeth's School, Barnet, Hertfordshire  
A Levels : Mathematics A, Further Mathematics B, Physics A, Chemistry B  
GCSE : 4 A\*, 6 A

## **References**

Available upon request.