SOHRAB KHAN

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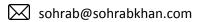
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I'm a Cloud expert addicted to self learning & having extensive experience in Devops, Security & Solution Architecture & have 5 AWS Certifications. I come from Development background having expert Java, Kotlin, Python, PHP, Bash expertise. I'm a strong proponent of agile methodologies and have the ultimate combination of skills and experiences for a Tech Lead, DevOps or Solutions Architect role.

Certifications

✴ Certified Kubernetes Application Developer
✴ AWS Certified DevOps Engineer - Professional
✴ AWS Certified Solutions Architect - Professional
✴ AWS Certified Solutions Architect - Associate
✴ AWS Certified Developer
✴ AWS Certified SysOps Administrator
✴ Plus 5 more (details available on request)

EXPERIENCE

I have more than 15 years of experience in IT spanning DevOps, Security, Solutions Architecture and Development.

Senior Manager Technology / DevOps (100% Hands-on)
Brilliant Basics (an Infosys company), London, UK (May 2016 - Present)

Started as a Senior Consultant in May 2016. I worked on the DevOps, Solution Architecture & Development of several very complex projects for very high profile Fortune 500 companies. I helped the development team follow devops principles & practices across the organisation which enabled multiple deployments per day, continuous releases to clients and automate infrastructure for every project that bb worked on in the past 3 and a half years.

Several notable projects I've worked on:
➔ Worked as DevOps architect & Security specialist on Rank (UK's leading gambling company) CMS project. In the later stages of the project I developed a DNS cutover and redirection NGINX solution that would handle redirection of 7000+ URLs and provide weighted cutover. **Stack:** EpiServer CMS, NGINX, Azure Functions, Teamcity, Azure Web Applications, SQL Server.
➔ Worked as Architect & DevOps Consultant in the development of Drupal 8 CMS solution for Reed Elsevier (Mendeley) project. Developed terraform scripts for IaC, Puppet scripts for configuration management & Jenkins pipeline for CI / CD enabling multiple deployments per day and releases to client every fortnight. **Stack:** Drupal 8.0, PHP7, NGINX, AWS, Terraform, Puppet, Debian 8, Jenkins CI, MariaDB
➔ Worked as an architect in the digital transformation project for CBI Bank UAE. I helped develop a highly secure, highly scalable & highly available Umbraco based CMS solution using non-cloud hosting provider. **Stack:** Umbraco, Dedicated VMs based hosting, SQL Server, Windows Server 2016

Skills

- ➔ Cloud Expert
- ➔ AWS
- ➔ Chef
- ➔ Ansible
- ➔ Terraform
- ➔ Cloudformation
- ➔ Jenkins, Groovy
- ➔ Teamcity
- ➔ Shippable
- ➔ CodeBuild, Code Deploy, Code Pipeline
- ➔ GitOps
- ➔ Bamboo
- ➔ MySQL
- ➔ DynamoDB
- ➔ MongoDB
- ➔ Nginx
- ➔ Apache
- ➔ HAProxy
- ➔ Tomcat
- ➔ Docker
- ➔ ECS
- ➔ Kubernetes
- ➔ Java
- ➔ Kotlin
- ➔ PHP
- ➔ Python
- ➔ Android SDK
- ➔ Gradle
- ➔ Linux
- ➔ ELK Stack
- ➔ Prometheus
- ➔ Monit
- ➔ Cloudwatch
- ➔ Redis
- ➔ Memcached
- ➔ Git
- ➔ Gitlab
- ➔ Jira
- ➔ Microservices
- ➔ Istio

➔ Worked in the development of backend for iOS, Amazon Alexa and IBM Watson application as development lead for HSBC. I helped in the design of the infrastructure & developed backend using Lambda functions. **Stack:** Swift, Alexa, Hockey App, IBM Watson, Slack API, AWS Mobile Hub, AWS Pinpoint, IBM Cloud

➔ Worked as an Engineering Lead & Security Specialist on Telenet's (Europe's leading telecommunication operator) native (Android & iOS) mobile solution. I automated the entire CI, CD and distribution using Jenkins multi pipelines, hockeyapp and buddybuild. I also helped in the development of the Android application. **Stack:** Android SDK, iOS, Crashlytics, Jenkins, Hockeyapp, Buddybuild, OAuth 2.0

➔ Worked as a Symfony (PHP) Consultant and helped develop backend for MasterCard Concierge iOS & Android application. I worked in the development of the platform as the lead developer and later took the role of DevOps and helped in the automation of AWS Infrastructure, CI / CD pipeline and Warm Standby DR solution. I also developed several Lambda functions, Terraform scripts for IaC and Ansible scripts for configuration management. **Stack**: Swift, Android, AWS, Hockey App, AWS Mobile Hub, Terraform, Packer, Docker, ECS, CentOS, Shippable CI, RDS (MySQL), SalesForce, OAuth 1.0a, Amazon SQS, Amazon SES, SNS, RDS, S3, Cloudfront, Lambda, Apiary, GTM, GA, Jira / Confluence.

Other Projects:
Micebook: Dev & Architect (**Stack:** AWS, Cloudformation, S3, Cloudfront, SES, SNS, Cloudwatch logs / custom metrics, Lambda, EC2, Jenkins, RDS (MySQL), Docker, ECS)
BNP Paribas: DevOps / Developer (**Stack:** Wordpress, PHP 5.6, Apache 2.4, MariaDB, Jenkins CI, Microsoft Azure)
Mesmerise Solution Architect / DevOps (**Stack:** Meteorjs, Nginx, Ubuntu, AWS, Cloudformation, Jenkins CI),
BrilliantBasics Architect HA infrastructure and developed Cloudformation script for IaC and Jenkins pipeline as code for CI/CD. (**Stack:** Wordpress, Nginx, Debian, Cloudformation, EC2, CodeDeploy, Jenkins CI),
Saranac Partner Solution Architect / DevOps (**Stack:** Wordpress, Nginx, Debian, Jenkins),
British Telecom (SRIMS) Created CI/CD pipelines for a BT project that is still underway
Internal Source Control & Jenkins: I designed and maintained HA & Scalable containerized Gitlab source control solution & Jenkins CI/CD solution using Kubernetes.

DevOps Consultant

Pouch (a Global Savings Group company), London, UK (May 2016 - Jan 2018)
Winner of BBCs' Dragon's Den

Pouch is a startup that provides coupons / deals using Chrome & Firefox extension. I worked as a freelance principal DevOps consultant and helped design & build a very highly scalable, highly available, highly secure, highly durable, self repairing, cost effective and fault tolerant infrastructure. The solution was developed to handle virtually unlimited amount of traffic with no downtime. For 6 hours after the Dragon's Den episode the infrastructure successfully served 35,000 users every second and experienced no downtime and loss of any valuable customer query.https://aws.amazon.com/blogs/startups/pouch-cofounder-vikram-simha-on-seizing-dragons-den-gold-and-scaling-customers/ Developed chef recipes for AWS Opsworks, Jenkins CI/CD pipelines, Lambda functions for automation & Cloudformation scripts for infrastructure as code. **Stack:** AWS OpsWorks (Chef), Cloudformation, EC2, API Gateway, Cloudfront, Route53, Cloudwatch, Lambda Python functions, S3, Glacier, AWS Aurora, DynamoDB

Solutions Architect & Chief Technology Officer (100% Hands-on)
MyMiniFactory Limited / Instant Makr Ltd, London/ (Feb 2013 – May 2016)

I started as Chief Technology Officer in MyMiniFactory which was a fresh startup in Feb 2013. Being CTO I was the most integral part of the online platform and steered it well. By the time I was leaving MyMiniFactory in May 2016 it was one of the world's largest 3D printing platforms.

I worked on 5 projects at the same time and managing a team of 10 developers. I designed & developed a highly interactive, loosely coupled, multilingual platform for 3D designers that was infinitely scalable. I completely automated the infrastructure as code during my tenure. Also developed the entire platform which was a microservices (choreography) architecture with multiple user interfaces including iOS, Android, Web, proprietary 3d printer interfaces and multiple 3d designing applications.
Developed Cloudformation scripts for automating Infrastructure as code, bash scripts for security updates, Ansible playbooks for configuration management.
Stack: iOS, Android, Windows Mobile, PHP7, Python 2.6, Cloudformation, Packer, Docker, Ansible, PHP, Symfony2/3, Apache, EC2, RDS (MariaDB), SQS, CentOS, Bash scripting, Jenkins, AngularJS, PHPUnit, Behat, Solr Search

Other Projects:
iMakr.com: Architect (**Stack:** Prestashop, AWS, Ansible, PHP, Nginx, Terraform, Jenkins)
iMakr.vc: Developer (**Stack:** CodeIgniter, MySQL, AWS, PHP, Apache)
MyMiniFactoryTv: Developer, Architect (**Stack:** Java, Wowza, AWS, EC2, Jenkins CI/CD, AWS Elastic Transcoder, S3, Cloudfront)

Links: http://myminifactory.com, http://imakr.com, http://imakr.vc, http://3dfindr.com

Founder & Chief Technology Officer
Café Digital UK Limited, London (Feb 2009 - Feb 2013)

In late 2008 my existing employer got credit crunched & due to scarcity of jobs in the market resulted in me setting up a search engine optimisation business.
I worked on the development and devops of around 200 web application in that period which mostly include web directories and hosting review / product review websites all developed for automation of search engine optimisation.

Contracts between January 2008 to 2015
During this period I was running my own SEO business but from time-to-time engaged in a part-time & remote Developer & Solutions Architect contract roles:

- Worked on the upgradation, bug-fixing and infrastructure automation of an Email Marketing Service, Wizemail.
  Stack: iOS, Cloudformation, Chef, SQS, SNS, Cloudwatch Alarms, Cloudwatch metrics, Cloudwatch Logs, S3, Cloudfront, PowerMTA, PHP 5.6, CodeIgniter, MongoDB, Apache2, Intercom, Salesforce API, Ansible
- Developed a native Android currency converter application as the sole developer & leveraged existing SOA APIs
- Wrote infrastructure automation and configuration management scripts and developed a RESTful Magento API for UK's biggest mobile distributor (Matobmobile.co.uk, wizcommerce.co.uk, dorodirect.com).
  Stack: PHP 5.6, Magento, Nginx, MySQL, Redis, Ansible
- Designed a highly available, highly scalable and fault-tolerant infrastructure for a US based designer (malavasu.com). Also developed a Symfony ecommerce application (malavasu.com, malavasu.com/shop)
  Stack: Cloudformation, OpsWorks, Cloudwatch, S3, Cloudfront, Splunk

- Troubleshooted a dedicated IP based secure vpn based (accessible only internally) webservice for UK's biggest mobile distributor (Matobmobile).
- Worked on development and devops of a core PHP / MySQL based web application hosted on AWS Elastic Beanstalk. Infrastructure automation using Cloudformation, Docker, ElasticBeanstalk, Cloudwatch.
  http://www.futexlive.com
  Stack: Cloudformation, Docker, ElasticBeanstalk, Cloudwatch, Splunk, PHP, MySQL

Developer & Linux Administrator (initially part-time then became full-time)
9t9 UK Limited, London (Mar 2006 - Nov 2008)

Worked on a Java Spring / Hibernate based Hotel Reservation System, PHP based API-client web application and managed cPanel / WHM based Linux dedicated server. Developed several BASH scripts to automate several deployment tasks of applications to dev and production environments.

Developer
Leads Software House, Pakistan (Aug 2003 - Feb 2004)

Worked on the computerization of several Hospitals which included development of the Hospitals' websites in PHP/MySQL and their complete automation-software in Java or Visual Basic. Also wrote BASH scripts for automated deployments.

EDUCATION
I have completed MSc in Internet Engineering from UEL, scoring Distinction in 4/5 modules & have completed several industry IT certifications.

Qualification	Institute	Year	Grade
MSc Internet Engineering	University of East London	2006 - 08	Distinction in 4/5 modules
Bachelor of Information Technology	Iqra University	2000 - 04	3.4 GPA (A-)

I have scored more than 70% throughout my academic life.

REFERENCES
Available on request