Shachaf M. Karvat

FREELANCE SOLUTIONS ARCHITECT
CLOUD DEVOPS ARCHITECT
AWS & K8s CERTIFIED
(Taurak IT LIMITED)

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A highly self-motivated and ambitious professional with extensive experience of managing the provision of comprehensive IT services to internal to his customers. An experienced consultant with considerable expertise in DevOps, networking and systems administration with a primary focus on improving security, functionality, automation and availability to the IT infrastructure. Quick to familiarise himself to modern technologies and industry developments using logical and analytical approach to problem-solving. Thrives within highly demanding and challenging working environments.

I focus mainly on cloud and DevOps technologies, delivering medium to large scale infrastructures with various cloud providers (especially AWS). I have vast experience in using automation and deployment tools like Ansible, Terraform, and Puppet to automate infrastructure deployment.

As a DevOps consultant, I have worked on a large-scale public sector and international corporations' projects that evolved the provisioning and automation of AWS environment (including VPC, Security, ASG, IAM, etc.), this involved CI/CD using Jenkins, Ansible, Puppet and Terraform and code management using Git and Gitlab. I have achieved AWS Solution Architect (Associate) certification, and am now in the process of receiving the 'Professional' certification.

I am currently looking for a new and challenging project either a DevOps, IT or cloud consultant. A role that will make the best use of my existing skills, qualifications and experience whilst enabling further personal and professional development. As a contractor, I am open to both short and long term projects.

Education and Qualifications

AWS:	AWS Solution Architect (Associate) AWS-ASA-17608.
CKA:	Certified Kubernetes Administrator (LF-vgeus9h68r)
RHCE:	RedHat Certified Engineer (2010)
MCSE:	Microsoft Certified Systems Engineer (2009)
BA:	Political Sciences & Business Administration (2008), *Hebrew University, Jerusalem*

Key I.T. Skills

Cloud computing – AWS, Azure, GCP   **DevOps** – Ansible, Terraform, CI/CD
Unix / Linux / Mac OS   **Scripting** – Bash, PowerShell, python
Virtualisation (Vmware, Xen, Cloudstack)   **Windows Server Family**
Containerisation – Docker, Kubernetes , LXC **Security frameworks**
Web servers – Apache, Tomcat, Nginx & IIS   **IAM/IDM**

Personal Details

Nationalities:	British, Polish (EU) and Israeli.
Languages:	Fluent English, Native Hebrew

Employment Summary

- **Senior Devops Consultant**   July 2021 – Current
  Reply Airwalk Consulting Limited, London (Remote)
  Seniot Devops consultant with AirWalk consulting, support clients implementing DevOps best practices, IaC, CI/CD and Cloud Architecture.

  **8.2016 – 7.2021   Self-Employed (Freelance) contractor, London
                             AWS Solution Architect and DevOps consultant**
For the last five years, I've found I can be most effective joining teams for three- to six-month periods as a freelance DevOps engineer and solutions architect. Some of my projects in the UK and EU are listed bellow.
Contractor roles/projects (Full list can be viewd on https://www.shachafkarvat.co.uk):

- **AWS DevOps Consultant**   February 2021 – May 2021
  Cambridge Cognition, London (Remote)
  AWS migration from a legacy virtual datacentre to a new AWS infrastructure in multiple regions, including China. Help setting up CI\CD, DevOps and security best practices, Kubernetes deployment using EKS and private ECR.

- **AWS DevOps Engineer**   September 2020 – January 2021
  Airwalk Consulting / Vive bank, London (Remote)
  Joined a consultant team brought in to help with a new bank lunch. The main tasks involved setting up, securing and hardening new infrastracture (Dev and Production), separating an existing VPC into secured segragated multiple VPCs, creating CI\CD pipelines and implementing IaaC.

- **Senior DevOps & Cloud Architect**   January 2020 – May 2020
  Alantra Corporate Portfolio, London
  Design and deployment of holistic cloud solution for a greenfield project. The project included design of the app cloud infrastructure, information security and compliance, configuration management and CI\CD automation.

- **DevOps consultant**   November 2018 - June 2019 (6 months project)
  BlockDox limited, London
  BlockDox is a start-up in the field of smart buildings, during this project I've helped BlockDox setup a cloud infrastructure, IoT infrastructure and automated deployment, security and transform their deployment into modern cloud native technologies.

- **Devops Consultant (Freelance)**   July-October 2018
  Various clients, London
  During July-October 2018 I was involved with several short-term projects, involving setting up CI/CD infrastructure, Cloud automation using Terraform, Kubernetes, Docker and AWS.

- **Release Engineer**   January-June 2018 (6 months project)
  Trinity Mirror, London
  Designed and implemented a CI/CD infrastructure based on Jenkins Declarative Pipeline. This project involved redesigning, modernising and optimising the current release pipelines and methods, and consolidating different infrastructures into a centralised CI/CD environment.

- **DevOps consultant**   September-December 2017 (3 months project)
  BCG-DV, London
  Working on a Blockchain project for a high-profile client. Setting up Greenfield environment based on Azure, Docker, Gitlab and Ethreuem. The project mainly focused on setting up blockchain P2P network of nodes using CI/CD with Jenkins, pipelines, git and Docker.

- **DevOps Engineer**   July-August 2017 (Kickstart project)
  CloudTP, London
  Part of the kickstart team for a cloud infrastructure project within a UK based retail bank. This project included cloud deployment and provisioning of AWS services using Terraform, Chef and Bash.

- **DevOps Engineer & Cloud Architect**   February-July 2017 (6 months project)
  Preh Car Connect, Dresden, Germany
  Providing DevOps support with a new cutting-edge cloud-based solution for the automotive industry. This role included setting up AWS infrastructure from the ground up using Ansible, Packer, Docker, Jenkins and other DevOps tools.
- **DevOps Engineer**   November 2016 – January 2017 (3 months project)
  BCG-DV / twill-logistics (Damco), Berlin, Germany
  Provided DevOps support for a new start-up through BCG-DV in Berlin. This role included setting up a production environment from scratch based on Docker, DC/OS and Azure cloud. This role also included a PoC with Kubernetes.

Permanent Roles:

9.2015 – 8.2016   **BJSS ltd, London**
        Platform/DevOps Engineer

As a Platform and DevOps engineer at BJSS (Consultancy), I worked on clients' projects spanning from medium to enterprise deployment of Cloud infrastructure, mostly AWS. My position as a Platform Engineer required creating, maintaining and delivering cloud-based infrastructure to support applications development cycles, testing, and deployment, alongside support and problem-solving. Responsibilities and achievements:

- Worked as part of an **Agile** team, delivering large scale infrastructure on **AWS** for a large government project using **Ansible**, **Puppet** and custom **Bash** and **Python** scripts.
- Deployed and maintained a multi-tier environment, supported development, testing, integration and production deployment.
- Deployed **AWS** instances and RDS using **Ansible**, **Terraform**, and **Puppet,** that included configuring **Auto-scaling groups**, **Load Balancers**, **VPC** and **Security groups**.
- Configured custom hardened security **AMI** for the project and dedicated **cloud-init** scripts per role customisations using **Bash** and **Powershell**. This included working with both **Linux** (90%) and **Windows** (10%) instances.
- Configured backup jobs for various components – Databases, Instances, and Filesystems.
- Continuous integration using **Jenkins.**
- Maintained code versioning using **Git** and **Git-lab**.
- Assisted in **recruitment** and screening for candidates and doing face-to-face technical interviews.

12.2014-08.2015   **Metro Bank plc, London IT**
        Operation engineer.

Worked as an IT operation engineer as part of the "Run the Bank" (BAU) IT operation team.

- Dealt with the day to day operation of the bank's infrastructure, including **Linux** and **Windows** servers, T24 servers, security**, Java and JBoss**, as well as the configuration of **Tomcat** servers.
- Monitored, Scripted and automation using **Splunk**, **PowerShell** and **Bash**.
- Identified and dealt with server issues to prevent interference with the banks operation.
- Secured and maintained private cloud based infrastructure.
- Supported other departments and provided quick and reliable solutions to ensure the online and core bank operation.
- Provided 24/7 OOH support for all of the bank core systems (rota).

09.2012-11.2014 Israeli Start-Up companies – IronSource, ObserveIT, LottoSend
System Linux consultant \ Specialist (Contract) This project includes:

- Reorganised the IT department after initial setup, setting up a Help Desk and call-centre for a new Israeli low-cost telecom company – Internal private cloud (VMWare) based in 2 data centres.
- Designed, planed and deployed the infrastructure migration to the Cloud (AWS \ Softlayer)
- Provided complete IT services including; maintenance of internal and production networks, and deployment of production servers, configuration and automation – Using Puppet and Chef (Dev and POC environments) and custom scripts (Bash, Python, and Powershell).

- Optimised production and R&D servers both on the customers' data centres and the Cloud environments (AWS EC2). This included; reducing resource usage and costs, eliminating duplicate resources and consolidating multiple accounts with cloud providers.
- Designed and deployed the Linux-based production sites based on LAMP stack (Based on Apache servers). Deploying large-scale AWS infrastructures including EC2, ELB, S3 and other AWS services.
- Set up Tomcat, Apache and Nginx servers in POC and production environments.
- Provided day to day and emergency support for production and mission-critical environments.

03.2011-07.2012 HEWLETT PACKARD, Enterprise Services division, ISRAEL
System Unix Engineer (Outsourced at Comverse Ltd)

- Contributed to the successful deployment of a major upgrade and reorganisation project to effectively increase capacity and improve the VM infrastructure
- Managed the successful upgrade of the infrastructure VMware's latest versions and added additional sites and DR.
- Responsibilities
- Played a key role in the provision of system and application support for HP ES at Comverse with full accountability for the management of the VMware virtualisation infrastructure
- Specifically, responsible for Unix OS support, monitoring performance and managing upgrade and deployment projects

06.2009-01.2011 HEXAGON TECHNOLOGIES, ISRAEL IT Manager

- Responsible for the provision of IT, networking and deployment services for customers and internal networks
- Actively involved in the design, installation and integration of Windows and Linux servers, IIS servers and Oracle databases across remote data centres
- Managed all networking of corporate and production sites with the emphasis on security and functionality
- Provided management and support to the NOC team and identifying and meeting their individual training needs

2008-2009   Freelance Networking & System Administrator

- Coordinated the provision of comprehensive IT solutions tailored towards specific requirements including server maintenance, networking and general technical support

2006-2008   CISCO SYSTEMS INC, ISRAEL
Lab Admin / IT Helpdesk (Intern)

- Played a pivotal role as a member of the Application Delivery QA and Development teams with responsibility for all lab communication equipment including routers, switches, and file servers
- Assisted with the installation of new hardware and software as well as providing internal technical support

2002-2006   Freelance PC Technician / System Administrator / HelpDesk

- Provided technical support small organisations whilst studying full time for a degree