

# Shachaf M. KARVAT

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

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I am a highly driven and committed professional possessing an extensive background in managing and delivering all-encompassing IT services for a broad spectrum of clients. As an accomplished consultant, I bring forth substantial expertise in DevOps, Cloud, networking, and systems administration. My primary emphasis lies in security, enhancing functionality, automating processes, and high availability of IT infrastructure.

A methodical and analytical approach towards problem-solving facilitates my proficiency in swiftly acquainting myself with contemporary technologies and industry advancements. This proficiency proves instrumental in thriving within high-pressure and challenging work environments.

My primary concentration has been on cloud and DevOps technologies. I have consistently demonstrated my ability to manage medium to large-scale infrastructures across various cloud providers, particularly on AWS. My experience leveraging automation and deployment tools like Terraform, CloudFormation, and Jenkins has significantly streamlined infrastructure deployment.

As a DevOps consultant, I have contributed to medium to large-scale projects within the public sector and international corporations, where my responsibilities encompassed the provisioning and automation of AWS environments (including VPC, Security, ASG, IAM, Landing Zones, etc.). These projects entailed implementing CI/CD using tools such as Jenkins, Terraform, Control Tower, and CDK and code management using Git and Git providers such as Github and Bitbucket.

Adding to my credentials, I have obtained the AWS Solution Architect (Associate) certification and am striving to secure the 'Professional' level.

I am actively seeking new opportunities as a DevOps, IT, or cloud consultant, where I can fully leverage my skills, qualifications, and experience while facilitating personal and professional growth. As a contractor, I am open to engaging in short and long-term projects, depending on the role's requirements.

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## 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*

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## Key I.T. Skills

**Cloud computing** – AWS, Azure, GCP

**Unix / Linux / Mac OS**

**Virtualisation** (Vmware, Xen, Cloudstack)

**Containerisation** – Docker, Kubernetes, LXC

**Web servers** – Apache, Tomcat, Nginx & IIS

**DevOps** – Ansible, Terraform, CI/CD

**Scripting** – Bash, PowerShell, python

**Windows Server Family**

**Security frameworks**

**IAM/IDM**

## Personal Details

**Nationalities:** British, Polish (EU) and Israeli.

**Languages:** English, Hebrew

## Employment Summary

### **10.2022 – 08.2023      Senior DevOps Consultant (Contractor) Fiinu Limited, Camberley**

As a Senior DevOps and Cloud Engineer at a pioneering fintech start-up bank, I functioned as a self-employed consultant, joining the company during its mobilisation phase to construct the production environment. I successfully created a multi-tier cloud environment leveraging Account Factory and Landing Zones, laying the foundation for the company's unique fintech solutions. I built a robust infrastructure to support the mobile app, utilising AWS, Terraform, and Jenkins to fully automate processes, resulting in improved operational efficiency and scalability.

### **07.2021 – 07.2022      Senior DevOps Consultant Reply Airwalk Consulting Limited, London**

Senior DevOps consultant with AirWalk consulting (permanent), support clients implementing DevOps best practices, IaC, CI/CD and Cloud Architecture.

### **08.2016 – 07.2021      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

### **Contractor roles/projects (Full list can be viewed 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 the launch of a new bank. The main tasks involved setting up, securing and hardening new infrastructure (Dev and Production), separating an existing VPC into secured segregated multiple VPCs, creating CI\CD pipelines and implementing IaC.
- **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 2018 - 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 2018 - 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 2017 - 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 2017 - 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 2017 - 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, planned 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
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