

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.

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

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

Professional Experience

10.2023 – Current DevOps and AWS Consultant (Contractor) **IAG, via Cyberbase consulting**

- **Contributed to an Intelligent Automation Project**, focusing on integrating and enhancing AWS solutions with Windows-based systems.
- Engineered and automated the provisioning of AMI images within CI/CD pipelines, bolstering deployment efficiency. Facilitated deploying and orchestrating multiple Windows-based RPA instances in a sophisticated, cross-account AWS environment.
- Innovated automation workflows by utilizing a suite of tools, including GitHub Actions, CI/CD pipelines, Terraform, Ansible, Packer and UiPath RPA. This led to a marked improvement in operational efficiency and agility.
- **Team Collaboration** with a fully remote team.

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

- Spearheaded the design and deployment of AWS cloud infrastructure using services such as EC2, VPC, IAM, ECS, and Landing Zones, laying the foundation for the company's fintech solutions.
- Implemented Infrastructure-as-Code (IaC) and CI/CD pipelines using Terraform and Jenkins, achieving enhanced scalability and operational efficiency.
- Conducted rigorous security and scalability assessments to ensure architectural robustness.
- Designed and implemented multi-tier self-healing deployment based on Control Tower and AFT.

07.2021 – 07.2022 Senior Devops Consultant (Permanent) **Reply Airwalk Consulting Limited, London**

- Consulted on AWS cloud architecture, CI/CD, and IaC best practices to support various client needs.
- Played a pivotal role in improving system observability and monitoring, aligning with client KPIs for operational excellence.

08.2016 – 07.2021 Self-Employed (Freelance) contractor, London **AWS Solution Architect and DevOps consultant**

- Engaged in multiple short-term contracts (3-6 months), focusing on AWS migration, containerisation with EKS and ECS, and implementing CI/CD pipelines.
- Demonstrated strong problem-solving skills in setting up, securing, and hardening cloud infrastructures across multiple sectors, including fintech, retail banking, and automotive.
- Notable Projects: (Full list can be viewed at <https://www.shachafkarvat.com>):

Cambridge Cognition, Cambridge (Remote), February 2021 – May 2021

AWS DevOps Consultant

- Orchestrated AWS migration from a legacy VDC to multi-regional AWS infrastructure, including China.
- Implemented DevSecOps best practices, established CI/CD workflows, and deployed Kubernetes clusters via EKS and private ECR.

Airwalk Consulting / Vive Bank, London (Remote), September 2020 – January 2021

AWS DevOps Engineer

- Facilitated the launch of a new banking platform by configuring, securing, and hardening AWS infrastructure.
- Employed Infrastructure as Code (IaC) methodologies using Terraform to segregate VPCs and automate CI/CD pipelines.

Alantra Corporate Portfolio, London, January 2020 – May 2020

Senior DevOps & Cloud Architect

- Designed and deployed an end-to-end cloud architecture for a greenfield project.
- Managed compliance and information security while automating configurations and CI/CD processes.

BlockDox Limited, London, November 2018 – June 2019

DevOps Consultant

- Spearheaded the setup of cloud and IoT infrastructure for a smart buildings startup.
- Modernized deployments via cloud-native technologies and security best practices.

Various clients, London, July 2018 – October 2018

DevOps Consultant

- Consulted on multiple short-term projects, specialising in CI/CD, cloud automation via Terraform, and containerisation using Docker and Kubernetes.

Trinity Mirror, London, January 2018 – June 2018

Release Engineer

- Redesigned and optimized release pipelines via Jenkins Declarative Pipeline.
- Consolidated multiple CI/CD environments into a unified infrastructure.

BCG-DV, London, September 2017 – December 2017

DevOps Consultant

- Developed a blockchain environment on Azure, integrating CI/CD pipelines via Jenkins, GitLab, and Docker.

CloudTP, London, July 2017 – August 2017

DevOps Engineer

- Initiated a cloud infrastructure project for a UK retail bank, deploying AWS services through Terraform, Chef, and Bash scripting.

Preh Car Connect, Dresden, Germany, February 2017 – July 2017

DevOps Engineer & Cloud Architect

- Engineered a cloud-based solution for the automotive sector, employing AWS services and an array of DevOps tools like Ansible, Packer, and Jenkins.

BCG-DV / twill-logistics (Damco), Berlin, Germany, November 2016 – January 2017

DevOps Engineer

- Supported a startup by establishing a production environment using Docker, DC/OS, and Azure.
- Conducted a Proof of Concept (PoC) with Kubernetes.

Early Career Highlights:

09.2015 – 08.2016 Platform/DevOps Engineer
BJSS Ltd, London

- **Agile Development:** Integral member of an Agile team, focusing on AWS-based infrastructure for a high-profile government project.
- **Automation & IaC:** Utilized Ansible, Terraform, and Puppet for AWS resource provisioning including EC2, RDS, Auto-scaling, and Load Balancers.
- **Security:** Crafted custom AMIs and cloud-init scripts, enhancing security compliance. Primarily Linux environments with some Windows instances.
- **CI/CD:** Implemented continuous integration through Jenkins.
- **Code Management:** Administered code versioning with Git and GitLab.
- **Talent Acquisition:** Conducted technical interviews to screen potential hires.

12.2014 – 08.2015 Metro Bank PLC, London
IT Operations Engineer

- **Infrastructure Management:** Oversaw daily operations for Linux and Windows servers, T24 systems, and Java/JBoss stacks.
- **Monitoring & Automation:** Scripted automation and monitoring tasks via Splunk, PowerShell, and Bash.
- **Incident Management:** Promptly resolved server issues to maintain bank operations.
- **24/7 Support:** Rotational OOH support for critical banking systems.

09.2012 – 11.2014 Linux Consultant/Specialist
Israeli Start-Up Ventures - IronSource, ObserveIT, LottoSend

- **IT Reorganization:** Spearheaded Help Desk setup for a new telecom company.
- **Cloud Migration:** Designed and executed AWS/SoftLayer migration strategies.
- **Infrastructure Optimization:** Streamlined AWS EC2 usage, cutting down on redundant resources and costs.
- **Automation:** Applied Puppet and Chef for Dev and POC environments.
- **Emergency Support:** On-hand for mission-critical situations.

03.2011 – 07.2012 System Unix Engineer
Hewlett Packard, Enterprise Services Division, Israel

- **VMware Management:** Led upgrades and expansions for the VMware infrastructure.
- **Unix OS:** Delivered Unix support and monitored system performance.
- **Project Management:** Contributed to a major upgrade and reorganisation project.

06.2009 – 01.2011 IT Manager
Hexagon Technologies, Israel

- **IT Governance:** Managed IT services, including Windows and Linux server deployments.
- **Network Security:** Implemented robust networking and security measures.
- **Team Leadership:** Coached and supported the NOC team.

2006-2008 Cisco Systems Inc, Israel
Lab Admin/IT Helpdesk (Intern)

- **QA Support:** Aided the QA and Development teams in managing lab communication equipment.
- **Development cycles:** Worked closely with the development and testing teams to support the development cycles and software releases.

Freelance Experience

- **2008-2009:** Networking & System Administration - Provided comprehensive IT solutions to small and medium companies.
- **2002-2006:** PC Technician/System Administrator/HelpDesk - Delivered tech support while completing a university degree.