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| **Gil C Uzvolk MBA BSc** |

London based die-hard hands-on engineer with 20 years’ software development as Tech Lead and useful Architect in International high profile, fast- moving agile organisations. Recent 5 years focus on DevOps CICD pipeline automation & hardening to provide secure, reliable repeatable production and development environments for shorter development cycles and increased deployment frequency.

**Enhanced Home Office Security (SC) Clearance** -Valid 03 April 2025

**Skills:**

SDLC based on Infrastructure as Code, IaC: Terraform, Python, Power Shell and UNIX scripts. Puppet, Chef. Ansible Playbooks, Container Orchestration on Kubernetes managed and K8s service. Docker swarms and Cloud-Formation.

Defining strategic GIT forking and branching processes and code release patterns, canary deployment using Octopus.   
Security Architect within SecOps, WebOps and Platform Integration  
Cloud Architecture: Amazon AWS, Azure, and Google Cloud Platform GCP.

Encryption standards, LDAP Authentications & AuthZ ForgeRock Open AM ~ DJ, Jump Cloud, SAML2 Cyber Security. SSH Key, PKI patterns

Handling regulatory and compliance certification, PCI-DSS. Implementing a Disaster Recovery failover process, SSO, SSL / TLS Security Policies. Setting up secure Networks with FortiNet’s FortiGate Firewall IP packet sniffers, FortiOS commands and VPN Tunnels. IT Security, Penetration / Pen-Test Reviews to satisfy external security audits and regulators on defense Brute Force and Machine Learned Attack patterns, Exploit techniques based Malicious Vectors. SQL Injections and.

Automated Provisioning, Roles Based Access Control, RBAC and Cyber Security enthusiasts for the safety of large complex networks

Evaluation of strategic platforms, frameworks, computing languages and being able to communicate as technology evangelist on a broad range of Open Source products.

Proven ability to design, plan and integrate large scale systems, communicate and document business needs with strong organizational skills, attention to detail and capable of working across organizational boundaries in high-output and very demanding environments.

Adaptable, pro-active, resourceful, results driven, convivial and innovative

**Skills Matrix**

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| **DevOps / Cloud Security Architect**  **IAC**  **Infrastructure As Code** | Cloud Architecture: Amazon AWS, Azure, and Google Cloud Platform GCP.  Jenkins, Bamboo Build Jobs configuration and management.  Terraform to define the prototype Enterprise Networks and datacenter infrastructure  Chef Puppet DevOps workflow automation with Salt Stack Continuous integration and deployment Application or container security and orchestration Security configuration remediation, audit and compliance for server hardening  Network device configuration and change management configuration which dives the automated execution plan for the resources and infrastructure in AWS Azure Google Cloud Platform  Configuration / Orchestration: puppet, chef, ansible,  orchestration (zookeeper, noah, mesos),  monitoring, virtualization and containerization, SysAdmin VSO HAProxy Nginx  Atlassian: JIRA, Confluence, Bit-Bucket Stash  Testing: Junit Mockito Selenium Cucumber | **7-10 years** |
| **Containerization, VMs**  **Hypervisors** | Kubernetes  Docker Swams  Vagrant  Open Stack | 4+ years |
| **Big Data Hadoop** | HDFS HBase Ambari Oozie  Azure Services& Google Cloud Platform AppEngine  Python and Scala on AWS  EMR, AWS CLI  LDAP, Open AM/DJ ,Unix Kerberos  Build: ANT MAVEN  Source Control: CVS Perforce Git BitBucket Subversion – SVN  Sensu monitoring of VMware, Docker Containers and Network Routers | **5-7 years** |
| **Methodologies & Paradigms** | RAD, TAS and Agile / Scrum Extreme , Pair Programming TDD BDD  Full Life Cycle Development, Full SDLC within Agile SAFe as well as DSDM environments | **12+ years** |

**Career**

**September 2017 – Current Cloud Mars IT DevOps Cloud Architect**

Asked by Cloud Mars IT, to return as a lead DevOps engineer within the DevOps / SecOps cloud security team.

Role also includes specialist IT consultancy with high profile UK Government projects.

This challenging assignment requires a detailed hands-on knowledge to formulate, automate and centralize the user provisioning and code to production release process. IT Security and Kerberos on the Hadoop clusters. This role involves making informed decisions about numerous competing open source frameworks. The decisions have long term repercussions in terms maintenance, Data and IT Security, scalability and platform maintainability

Tech : Java, Scala, Docker, Puppet, Jenkins, Kubernetes, Python, JSON. Kibana, Terraform, Packer, AWS, Azure

Terraform to define the prototype datacenter infrastructure which dives the automated execution plan for the resources and infrastructure in AWS. AWS CLI, Power Shell to automate tasks in Cloud based infrastructure.

Orchestration (mesos, zookeeper, noah), VSO and containerization. AWS, OpenStack, vagrant, docker, Grafana

Source Control CI & Issue Tracking. Build: ANT MAVEN,

AWS CodeDeploy automates the application deployments to EC2 instances and Lambda functions

Java, Python, Scala, Git BitBucket. Sensu monitoring of VMware, Docker Containers and Network Routers

Azure integrating with On - Premise systems. Networks & Routing Tables, FortiGate Fire Wall Installation, Kerberos Configuration and User Provisioning LDAP, Jump Cloud

**January 2017 – September 2017 *HSBC Bank*  DevOps & Cloud Security**

This fast paced assignment as a hands on DevOps Architect to help define the strategic DevOps platform service within the bank’s high profile Digital Transformation

Tools & Technologies: Hudson / Jenkins, Puppet, chef, ansible, cfengine

CI: Jenkins

Atlassian: JIRA, Confluence, Stash & Bamboo

**June 2016 – December 2016 Cloud Mars IT DevOps & Platform Engineer**

During this period, I worked on a proprietary big data analytics platform. The primary focus is developing an efficient authentication and Authorization based on Open AM and Open DJ and SAML privacy assertions. The system is proved to be fully compliant with General Data Protection Regulation (GDPR), Building complex cloud based infrastructures in AWS

Technologies SAML v 2 Spark, Scala, Python, Java, JSON. Kibana, Terraform, Packer, AWS, AWS Lambbda, ELK

**May 2015 – May 2016 Smartfocus DevOps / SecOps**

This security and integration position reports direct to the CTO,

The role requires excellent communication and analytical skills, comfortable addressing larger public audiences on various technical areas such as IT Security, ability to document and analyze business requirements and continuous top-level discussions with senior management and other internal and external stake holders   
Tools, AWS, Cloud based Architecture, Hadoop HDFS, Pig Scripts, MapReduce, Cassandra, Eclipse, Java 8 Lambda Expressions, Scala, Groovy Mockito TFS, GIT, Linux server, Spark, Apache Kafka, Cloudera products, Cucumber - Selenium KanBan Hunk / Spunk

**March 2014 – April 2015 Global Resourcing, DevOps & Ops**

2 x contract assignments via Global Resc. BEC then PKO

Global Resourcing provides technical specialist resources to various financial clients across Europe. After a successful on-time delivery of an enterprise trading platform design and cost estimation, I was asked to be the Lead Architect for a more complex system consisting of numerous subsystems from other parts of the Organization. The new design backbone handles numerous downstream data flows. My work involves the high level Architectural design of a Java / Hadoop based Big Data platform. Defining and Creating Map Reduce jobs, Cascading, Crunch and Pig Scripts for ad-hoc ETL of user data. The role involves making informed decisions about numerous competing open source frameworks. The decisions have long term repercussions in terms architectural scalability and software support.

**August 2013 – February 2014 Pensions First DevOps / Cloud Architect**

This is an urgent short fixed- term temporary replacement of the clients on site engineer. Hands on Java development and urgent workarounds to solve critical operations and production issues. I led the streamlining of the Continuous Integration, CI pipe-line and version control GIT forking process.

Tools Java Scala Groovy C# WPF WCF, Oracle, TFS, JMock, and Jenkins, HTML 5, Big Data Hadoop HDFS YARN

**December 2012 – August 2013 Tel-Aviv, Israel Engineer**

The role also involves setting up and maintaining source versions and tight security controls for the UAT, PROD environments. Putting in place a robust GIT forking process add Jira based issue tracking system. As a senior engineer, responsible for leading teams of up to 15 technical engineers and developers in each. I was responsible for delivery of trading system with budget over US $20 million. The Agile based delivery focused project requires top level discussions with other departments across the bank, making sure code conforms to strict coding standards. Project reached the tight go-live delivery date on time.

Tools: Big Data, Hadoop, AWS, Java Spring, Hibernate, JBoss, Maven, Unix, Oracle SQL and NoSQL

**August 2011 – May 2012**  **BNP Paribas – London Platform Architect**

This challenging assignment is to design, develop and deliver a java based integration service for existing legacy trade and risk management systems for FX derivatives as a single high availability, high volume low latency FX position management platform. The role involves ownership of the GIT Repo with Jenkins based builds & versioned releases.

**September 2007 – Feb 2011 Bear Stearns /** **JP Morgan**  **Developer & Deployment Support**

*JP Morgan purchased Bear Stearns in Feb ‘08 while I was on a contract with Bear.*

*I was extremely fortunate to be one of the very few consultants at Bear to be offered a new contract under JP Morgan within Prime Brokerage, in recognition of my detailed knowledge of the testing and deployment systems and my critical role for systems integration and data migration during this transition period.*

Excellent communication skills were needed in this ambitious challenge to align the two companies systems.

Technologies: GIT, Jenkins, Java, J2EE C#. SQL & Oracle, Sybase EJB Spring, Hibernate

**May 2006- June 2007 GLG, Hedge Fund**  **Front Office, RAD Developer**

As a Rapid Application Developer, in the Front Office high pressure environment, I used my coding skills to deliver immediate solutions for PnL and Risk reporting applications.

**2001 - June 2006** **T-yon Cable Modems Java / C++ Developer**

This first job post-university was offered after the successful completion of a 1 year internship. This challenging coding space requires a detailed understanding of complexities around building C/C++ drivers and embedded components for 56K Cable modems, Network Routers, The role provided a detailed understanding of TCP/IP Traffic protocols & subnet masks. I revamped a core low-level DHCP service on an embedded device with minimal memory and CPU resources. As I took initiative and ownership of the project code and through the keen use of Java design patterns managed to substantially increase throughput for the cutting edge 56K modems. I was selected as team leader of 3 other developers.

Other Tools & Technologies

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| **IPC and Bus/ middleware** | RMI, TIBCO, CORBA HTTP-SOAP JMS TCP / IP Sockets Messaging Apache Camel, Active MQ, Kafka |
| **UNIX** | NIX Linux & Solaris.KORN Shell, Bash, CSH and Perl Script, CORBA C++ STL, BOOST |

Educational Qualifications

**MBA** in *Financial Risk management*

**Edinburgh Business School, Heriot-Watt University, Edinburgh**

**BSc** – Mathematics, Computer Science **University of South Africa, Pretoria**

**Industry Certification**

Sun Certified Enterprise Architect java 2 Enterprise Edition Exam no 310-051

Brainbench Exams: C# .NET & Java 5 [Top 15 in London]

Training towards CISSP (Certified Information Systems Security Professional)

Training towards CISM (Certified Information Security Manager)

**Professional Membership**

The Institute of Actuaries - Student Member: 9023433

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***VERY STRONG REFERENCES AVAILABLE UPON REQUEST***