**Mustafa K. Al Ogaidi**

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| |  | | --- | |  |   **University of Technology, Computer Engineering**  Baghdad, IQ  B.Sc. in Computer Engineering | |

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| **Professional Certificates** |

* AWS-SAA. 3Q289HV211RE1V5N
* AWS-DVA. 8QJ76GDCCFB11LSW
* CCNA Security. (CSCO12911957)
* CCNA R&S. (CSCO12911957)
* CCNP R&S. (CSCO12911957)

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| **SKILLS** |

* **Scripting Languages:** Perl, Python, JavaScript
* **Programming Languages:** C, C++
* **Data-serialization Language:** Json and Yaml.
* **IaC Tools:** Terraform and CloudFormation.
* **Database:** Oracle, MS-SQL Server, PostgreSQL, MySQL and MongoDB.
* **Versioning Control:** Git, GitHub, GitLab and Bitbucket, GitOps (ArgoCD)
* **Containerization Tool:** Docker.
* **Container Orchestration:** Docker Swarm and Kubernetes (Rancher).
* **CI:** Jenkins and vRSLCM.
* **Build Tools:** Maven Gradle and Ant.
* **Ticket Tracking Tools:** Jira and Service Now.
* **Cloud Infrastructure:** AWS and Azure.
* **Multi-Cloud Application PaaS:** Pivotal Cloud Foundry and RedHat OpenShift.
* **Virtualization:** VMware.
* **Operating Systems:** Windows and Linux.
* **Web Server:** Apache Tomcat and IIS.
* **Web Automated Testing Tool:** Selenium.
* **Network Technology:** Cisco Technologies.
* **Familiarity with distributed systems:** e.g., queues, caching, search indexing
* **interest in learning AI-focused frameworks**

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| **WORK EXPERIENCE** |

**NTT Data | Citibank** May 2022 – Current

Senior Software Engineer – Python

* Re-engineering old systems in Citibank from Perl to Python where those systems almost die now beside consuming a lot of resources (CPU, Memory and network) as well they are too slow, with python and re-engineering these systems to reduce execution time and resourced consuming.
* Build new set of rest API microservices using flask framework to facilitate on daily basis communicating with MSSQL database and Oracle database (these services use to scan different systems been used in the bank and store information in MSSQL database, so the collected data be ready to use by any other API service).
* Build effective SDKs for different python apps. Where need to be used by other developers and departments.
* Build application containers (applications been written in python) and router containers using nginx in the same pod, where each pod have 1 application container and 1 router container, to facilitate the routing of incoming requests to the exact application container.
* Create different pipelines in Jenkins as required to build and test applications that I’m working on.
* Build set of network tools using python where these tools used by different teams to facilitate their on daily basis work.
* Testing different systems been written in python from other collogues and fixing bugs if there any.
* Member of the team that responsible to build the reporting system which is used to grab information from all pods connected through Turbonomic IBM.
* Use different techniques to enhance python applications like multiprocessing, multithreading and asyncio
* Use decorators to improve python applications functionality.
* Use logging to manage logs to different systems.
* Automate interactive with different websites using selenium module (like VMware web site, to scrap information after doing different selection in the site and grab data related to IBM, HP and Dell).
* Scrapping information from some internal Bank sites that don’t have API endpoint, using BeatifulSoup where information been filtered and stored in the MSSQL database.
* Analyze and testing most important systems that NTT Data responsible for, like LBaaS, VMaaS where they are build using python and NodeJS.
* Writing MongoDB queries to be used within python application like LBaaS system and VMaaS system.
* Build pipelines in lightspeed for different projects that I’m working on.
* Writing scripts in JavaScript to be used in VRO 7.6 that used to provision and decommission servers.
* Writing Ansible playbooks to manage executing of different applications on selected inventories.
* Optimize python applications to reduce time and resources been consumed.
* Writing python scripts for AWS lambda to handle specific events.

**HCL America (IBM) – TWC Project** Aug 2020 – Mar 2022

Senior Software Engineer – Python

* Analyze and testing the reference server (Linux) to understand what programs and applications running where there’s no documents or developers available to help with.
* Build a reference list of programs (PERL and C++) with their dependencies currently running in the reference server.
* Analyze and understanding the PERL programs to enable re-engineering in python.
* Read and understand C++ to enable re-engineering in python.
* Design new automation system using python to be used instead of the old system that been built using PERL and C++, that will take care of clean filtrate information and data of GFS to be delivered to different client through AWS.
* Build a database using PostgreSQL and python for incoming GFS data.
* Using python to filtrate and clean the data received from weather sensors through GFS and prepare them for the next step.
* Upload the production data using python to amazon - S3.
* Implement the required infra in AWS using python to take responsibility of the next step which include implementing of EC2, Amazon Redshift, Amazon lambda and Amazon SQS as well SNS to deliver the required information to clients.
* Ability to convey information concisely and clearly
* Ability to work closely and effectively with peer developers
* Solid understanding of parallel and concurrent programming
* Participation in software design, development, and code reviews
* Modularizing monolithic PowerShell scripts to micro scripts to be used by ansible

**Accrue Partners – AmerisourceBergen** Sep 2018 – Aug 2020

IaC Developer II

(Infrastructure as Code Developer)

* Infrastructure as Code (JavaScript, Python JSON, YAML).
* Cloud Delivery Services
* Automated testing procedures using python and selenium.
* Automating the installation of software through PowerShell scripts.
* **Internal Production Cloud1**: VMWare
  + VMWare vRealize API integrations with InfoBlox IPAM, ServiceNow, Puppet.
  + VRealize VCenter through vRealize Orchestrator 7.5.
  + VMWare vRealize Orchestrator Infrastructure Automation.
  + VMWare Orchestrator workflow design & implementation.
  + Custom Configuration Item Name Generation & automated REST API POST to ServiceNow CMDB.
  + Scripted REST API query design and implementation through orchestrator with ServiceNow and InfoBlox WAPI (Automated IPAM)
  + Server Build Automation.
  + Automated Solutions with focus in JavaScript, Node.js, JSON, Powershell, Bash and VMWare VRealize Orchestrator and Blueprint Design with Custom Properties in VRealize Automation 7.5.
  + Platform Integration.
  + VMWare Vrealize Automation Catalog XaaS blueprint design.
  + VMWare Vrealize Automation Custom Spec (domain join), Property & Property Group Definitions.
  + VMWare Vrealize Automation IaaS deployment with Custom Orchestrator workflows.
  + Automated VM provisioning for Windows & Linux with customizations.
  + Automated Active Directory object and group creation through Orchestrator.
* **External Production Cloud1**: Azure – Lab purposes
  + Write configuration files using Terraform to Provide automated infrastructure provisioning
  + Preparing required templates to implement infrastructure in Azure using Terraform.
  + Building infrastructure include (resource groups, virtual network, subnets, network security groups, network security rules, virtual machine scale sets, load balancer) using Terraform for testing purposes.
  + Building infrastructure using python to implement infrastructure in Azure.
* **External Production Cloud2**: Aws
  + Developed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security Groups.
  + Prepare Images to be used with AWS using Packer.
  + Implement pilot infrastructure with AWS using Terraform, Bitbucket and Jenkins.
  + Part of DevOps engineers’ team for infrastructure support on AWS cloud.
  + Creating cloud formation scripts for hosting software on AWS cloud.
  + Build new S3 in AWS.
  + Build AWS EC2 and Cloud watch services.

* **Testing Env:** Docker
  + Understanding of and experience with Docker and Terraform.
  + Docker container hands on experience
  + Docker networking hands on experience
  + Docker image, image layers and image tagging
  + Persistent data issue resolving, hands on experience using data volume or bind mounts
  + Hands on experience on docker compose Yaml
  + Creating docker swarm cluster
  + Docker swarm traffic management
  + Docker swarm stack, scale application, persistent data issue in distributed applications.
  + Docker swarm secrets management
  + Zero downtime service upgrade and health check.
* CI/CD:
  + Prepare Images to be used with AWS using Packer.
  + Implement pilot infrastructure with AWS using Terraform, Bitbucket and Jenkins.
  + Implementing GitLab using Linux SuSE 12.4.
  + Implementing GitLab inside docker.
  + Version control through GIT and Bitbucket.
  + Implementing Jenkins master and slave nodes.
  + CI/CD VMWare Vrealize Orchestrator Workflows through vRSLCM with GitLab as endpoint.
  + Built a new CI pipeline using vRSLCM.
  + CI/CD pipeline management through Jenkins.

**Randstad - Masergy** Jun 2017 – Sep 2018

Network Engineer II

* Used Python programming to develop a working and efficient network within the company
* Build new orchestrator tools to leverage efficiency of network configurations (Scarlett).
* Extensive use of rest API and python to build orchestrator tools to communicate with ServiceNow and Jira
* Extensive use of selenium module within python orchestrator tools to scrap required information from different resources.
* The orchestrator tools able to read information from excel, csv and database.
* Performed research regarding Python Programming and its uses and efficiency
* Developed object-oriented programming to enhance company product management
* Write configuration files using Terraform to Provide automated infrastructure provisioning on digitalocean
* Supporting software development and data management projects that prepare large datasets for delivery to a shared cloud computing and storage environment.
* Provide strategies and requirements for the seamless migration of applications, web services, and data from local and server-based systems to the AWS cloud.
* Part of DevOps engineers’ team for infrastructure support on AWS cloud.
* Creating cloud formation scripts for hosting software on AWS cloud.
* Automating the installation of software through PowerShell scripts.
* Version control through GIT and Bitbucket.
* Involved in deploying the content Cloud platform on Amazon AWS using EC2, S3, and EBS.
* Deployment of Cloud service including Jenkins on Docker using Terraform.
* Developed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security Groups.
* Built a new CI pipeline.
* Testing and deployment automation with Docker, Jenkins.
* Using AWS to provision new machines for clients.
* Build new S3 in AWS.
* Build AWS EC2 and Cloud watch services.
* CI/CD pipeline management through Jenkins.
* Automation of manual tasks using Shell scripting.
* Developed hybrid cloud delivery model allowing for customers to choose the mix of public and private clouds
* Using cloud automation tools terraform for building, changing, and versioning infrastructure.

**Presidio** Jun 2014 – Jun 2017

Network Alert Engineer

* Supporting software development and data management projects that prepare large datasets for delivery to a shared cloud computing and storage environment.
* Design required tools using python to facilitate NOC team daily operations.
* Lead the Infrastructure Automation team to build different tools to facilitate daily working in the company.
* Write configuration files using Terraform to Provide automated infrastructure provisioning in digitalocean.
* Provide strategies and requirements for the seamless migration of applications, web services, and data from local and server-based systems to the AWS cloud.
* Part of DevOps engineers’ team for infrastructure support on AWS cloud. Creating cloud formation scripts for hosting software on AWS cloud.
* Automating the installation of software through PowerShell scripts.
* The complete installation and hosting were automated with AWS cloud formation and PowerShell scripts.
* Version control through GIT and Bitbucket.
* Provisioning virtual servers using vSphere.
* Involved in deploying the content Cloud platform on Amazon AWS using EC2, S3, and EBS.
* Developed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB, Security Groups.
* Built a new CI pipeline. Testing and deployment automation with Docker and Jenkins.
* Using AWS to provision new machines for clients.
* Create new S3 on AWS for clients.
* AWS EC2 and Cloud watch services. CI/CD pipeline management through Jenkins. Automation of manual tasks using Shell scripting.
* Troubleshoot application deployments, recreate customer issues, build proof of concept applications with Apache Tomcat.
* Developed hybrid cloud delivery model allowing for customers to choose the mix of public and private clouds.
* Deployed serverless websites using AWS Lambda.

**International Foundation for Electoral Systems (IFES) – Overseas** Sep 2012-Feb 2014

Network Engineer

* Day-to-day responsibilities included Implementation of Network Projects & troubleshooting various LAN, WAN, Switching and routing problems.
* Preformed IOS upgrades and reconfigured devices afterwards.
* Providing timely response to phone calls into the National Command Center (NCC).
* Providing network operations support with experience supporting a network with 1000+ nodes.
* Introspectively review NCC operating procedures, daily support practices, major incident support, etc. and provide feedback to the team leadership for continuous service improvement and operational excellence.
* Working with Tier III, SMEs, SDMs, and Engineering colleagues to think about what we do today versus what we should be doing tomorrow.
* Work with client on all stages of projects.
* Gather and collate network requirements by the client.
* Assist in sizing effort for the network part of projects.
* Document all network set-ups.
* Highlight and document all network risks of projects.
* Work as part of a team with excellent communication skills.
* Coach junior members of staff.

**International Relief & Development Organization (IRD – ICAPIII) - Overseas** Nov 2010 - Sep 2012

Network Engineer

* Design/Implementing and Supporting VLANs, VTP and EtherChannel.
* Design/Implementing and Supporting Inter VLANs routing on Layer-3 switches.
* Design/Implementing and supporting routing using EIGRP, OSPF and policy routing using route maps.
* Design/Implementing and Supporting traffic filters using Standard and Extended access-lists,
* Design/Building/Implementing/Supporting Remote Access Solution: IPsec VPN, Easy VPN, SSL VPN.
* Technical lead duties and management of technical projects.
* Implementation and supporting of HSRP and GLBP
* Building and maintaining Visio documentations for Clients

- *Database Manager on behalf*Nov 2010 - Sep 2012

* Develop new databases, database applications and database interface functions (data entry forms and reports) to capture data for ICAP.
* Maintain existing databases and assist with data entry into all databases.
* Ensure integrity and reliability of the database.
* Train staff on the use of the database.
* Assist local council in maintaining IRD installed websites and develop capacity of their staff in using the web sites.
* Manage website development subcontractors.
* Supervise and develop staff.
* Develop standards and guidelines to guide the development, storage, manipulation, security and distribution of community and Marla project data.
* Works to consolidate and develop guidelines and procedures to regularly update, proof and verify project data on existing databases and may direct at the behest of the COP other database managers or direct programmers and analysts to make changes.
* Test programs and/or databases, correct errors and make necessary modifications.
* Plan, coordinate and implement security measures to safeguard information in computer’s files against accidental or unauthorized damage, modification or disclosure.
* Approve, schedule, plan, and supervise the installation and testing of new products and improvements to computer systems, such as the installation of new databases related to project data.
* Train users and answer questions.
* Specify users and user access levels for each segment of database.
* Develop and document data model describing data elements and how they are used, following procedures and using pen, template or computer software.
* Develop and document methods for integrating different products so they work properly together.
* Review procedures in database management system manuals for making changes to database.
* Work as part of a project team to coordinate database development and determine project scope and limitations.
* Select and enter codes and data to create production database.
* Write and code logical and physical database descriptions and specify identifiers of database to management system or direct others in coding descriptions.

**ANHAM** Jul 2009 - Nov 2010

Network Engineer

* Installed, configured, and supported an organization’s local area network (LAN) and wide area network (WAN).
* Performed technical support for customer and internal networks and systems.
* Managed Major Incidents within specified SLA agreements, escalating accordingly and producing business notifications as per defined Major Incident Processes.
* Managed, monitored installation and maintenance of software/hardware on all systems.
* Maintained, improved and escalated issues related to monitoring software.
* Monitored system network performance to pro-actively bypass problems.
* Ensured that customer requests via the ticketing system are managed to closure.
* Delivered results in support of achieving the organization’s Service Level Agreements.
* Troubleshoot complex network issues and escalated to higher level if required.
* Evaluate and coordinate network service.
* Provided 24x7 Supports for Ministry of Defense/Baghdad-IZ.
* Handled a LAN and WAN for more than 100000 nodes in various branches of MoD.
* Taking care of Full access layer network.
* Configure and Troubleshooting Access layer Switches.
* Solving tickets raised by the users.
* The main responsibility is to maintain network uptime of 99% and service uptime of 100%.
* Planning & scheduling the network and service down time for various upgrades and Maintenance.

- *Database Admin on behalf*Jul 2009 - Nov 2010

* Considering both back-end organization of data and front-end accessibility for end-users.
* Refining the logical design so that it can be translated into a specific data model.
* Further refining the physical design to meet system storage requirements.
* Installing and testing new versions of the database management system (DBMS).
* Maintaining data standards, including adherence to the Data Protection Act.
* Writing database documentation, including data standards, procedures and definitions for the data dictionary (metadata);
* Controlling access permissions and privileges.
* Developing, managing and testing back-up and recovery plans.
* Ensuring that storage, archiving, back-up, and recovery procedures are functioning correctly.
* Capacity planning

***Automation systems:***

Built the automation systems below:

* PGS (weather information) – python - for TWC - IBM
* Scarlett (v1.0, v2.0, v2.1, v2.2 and v2.5) – python and selenium - for Masergy.
* AutoBuild (V2.0, V3.0, V4.0, V5.0 and V6.0) - JavaScript – VRO - for AmerisourceBergen.
* Universal\_Server\_Build (V2.0, V3.0, V4.0, V5.0 and V6.0) - JavaScript – VRO - for AmerisourceBergen.
* NAS\_Volume\_Health\_Check (V1.0, V2.0 and V3.0) - JavaScript – VRO - for AmerisourceBergen.
* AmerisourceBergen-NAS-Volume-Request (1st to 4th generation) - JavaScript – VRO - for AmerisourceBergen.
* Server\_Decomm Automation system (V1.0) - JavaScript – VRO - for AmerisourceBergen.