

HAMZA BIN IRFAN

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SUMMARY

Microsoft Certified DevOps Engineer (Expert) with high ambitions. Holding a M.S. degree in Computer Science. Coming from a strong academic background and excellent communication skills. I have 4+ years of experience in providing solutions using various technology stacks including AWS, Azure, Docker, Kubernetes, CI/CD using Jenkins, ArgoCD, Azure DevOps, Terraform, VMWare Virtualization. A fast learner who thrives on continuous learning.

EDUCATION

NED University of Engineering & Technology, Main Campus

Sept 2020 – Feb 2023

MS, Computer Science

Karachi, Pakistan

Coursework: Software Testing & Maintenance, Cloud Computing, Machine Learning

CGPA: 3.40 / 4

Indus University, Main Campus

Feb 2015 – Feb 2019

BS, Computer Science

Karachi, Pakistan

Coursework: Software Development, Data Structure, Cyber Security, Computer Networking

CGPA: 3.29 / 4

EXPERIENCE

Pakistan Single Window – PSW

Aug 2022 – Present

Software Engineer – DevOps

Karachi, Pakistan

The Pakistan Single Window initiative led by Pakistan Customs aims at reducing the time and cost of doing business by digitalizing Pakistan's cross border trade and eliminating paper based manual processes.

RESPONSIBILITIES: -

- Implement containerization using tools like **Docker** and container orchestration with **Kubernetes**
- Work with various cloud platforms (e.g., **AWS**, **Azures**) to deploy and manage applications and services
- Deployment and management of **Ocelot** .NET Core-based API Gateway
- Develop and manage CI/CD pipelines using **Jenkins** to automate the build, test, and deployment of applications
- Integrate **SonarQube** to check the code quality and security scans into the CI/CD process
- Integrate **trivy** container vulnerability scanner on the existing CI/CD pipelines for vulnerability assessment
- Design, implement, and maintain infrastructure as code (IaC) using tools like **Terraform** and **Ansible**
- Set up and analyze logs, metrics, monitoring and alerting systems to track the health, performance, availability of applications and infrastructure by using **Seq**, **ELK**, **Prometheus**, and **Grafana**
- Manage to ensure smooth and reliable release management across SIT, QA, UAT, Staging, Hotfix, and Production environments with proper version control, branching, and tagging strategies
- Supporting Kubernetes deployments with **GitOps** and **Cloud Native CI/CD**
- Working knowledge of different build tools like (npm, yarn, .NET, and maven)
- Handle multi-user impact **ClickUp** tickets

PROJECTS: -

- Application modernization by migrating PSW microservices architecture from **Docker** to **Kubernetes**
- Deployed **GitLab Enterprise** for DR on the on-premises datacenter and migrated repositories from **Gogs**
- Migrated existing on-premises **DockerHub** registry to the **VMware Harbor** registry
- Configuration and deployment of code scanning tools (**SonarQube**)
- Deployed **ELK Stack** and migrate containerization logs from the different environments

Technyx Systems

Feb 2021 – July 2021

DevOps Engineer

Karachi, Pakistan

TECHNYX is an agile consulting and technology services company that provides premium quality applications, integrations and marketing services that help our customers, employees and partners become and remain the leaders of change.

RESPONSIBILITIES: -

- Configure and setup services using **Azure** – VMs, Azure DevOps, Azure SQL service, Storage Account, Log Analytics
- Create, configure, and manage end-to-end continuous integration and continuous deployment (CI/CD) pipelines using **Azure DevOps**
- Deployment and management of Azure **API Management** Gateway
- Set up monitoring and alerting using **Azure Monitor** to track application and infrastructure health
- Implement security measures such as identity and access management (IAM), encryption, and network security on Azure
- Management of release cycle of Dev, QA, Staging, and Production environments
- Working experience on different OS like (Ubuntu, Windows Server, CentOS)
- Handle multi-user impact **JIRA** tickets

CNS Engineering

April 2019 – Oct 2021

System Engineer

Karachi, Pakistan

CNS Engineering provides the Datacenter Solutions, SDDC (Software-define Datacenter), Information Security and Cloud Migration Services in Pakistan, SMB and Large Enterprises.

RESPONSIBILITIES: -

- Maintain **Git** workflows for version control (Source Code Management)
- Write **Bash Scripts** in Linux to automated deployment tasks
- Learning more automation tools like (**Ansible, Terraform, Jenkins CI/CD**)
- Knowledge of major cloud service providers, like (**AWS, Azure, OCI**)
- Knowledge of databases like (**MS SQL Server, MariaDB**)
- Learn, operate and manage different container orchestration tools like (**Docker Compose, Kubernetes**)
- Managing virtual machines using **VMware VSphere, vCloud Director, Azure and OCI Cloud**
- Configuring and Maintaining **DNS, Active Directory, DHCP, FTP, SMTP, Web Servers (Apache | Nginx)**
- Complete **SolarWinds NMS** Portfolio: (Networks, System, Database, Security, IT Helpdesk)
- Drafted technical documents, manuals, resolution steps, training materials, and technical support FAQs

PROJECTS: -

- Design and deployment of **SolarWinds** various solutions into different client side which includes (K-Electric, NBP, SSGC, Mobilink, NUTECH)
- Deployment and migration of **Veeam Availability Suite** into on-premises datacenter (PIA and PSW)
- Complete end-to-end deployment of **Symantec Endpoint Protection** into National Bank of Pakistan

SKILLS

Docker, Kubernetes, Azure, AWS, Microservices, Consul, ArgoCD, LongHorn, RabbitMQ, Ocelot API Gateway, Jenkins, Azure DevOps, Prometheus, Grafana, SEQ, ELK, Python, Bash Scripting, Git, GitLab, Linux, Windows Server