Ra'ad Aldakhil

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EDUCATION

University of Manchester Manchester, UK
Master of Engineering with Honours - MEng (Hons) in Software Engineering *Sep. 2015 – June 2019*

EXPERIENCE

Software Engineer Sept 2019 – Present
Saudi Aramco *Dhahran, KSA*

- Developed an application in **Python** to provide vendor-agnostic Storage as a Service to over *80,000+ users* for CIFS and NFS shares reducing deployment time by *98%* saving *1200+ man-hours per year*
- Developed multiple **Ansible** playbooks to automate storage NFS mount discovery, synchronisation jobs, mount switchover for NFS migrations, and other routine tasks
- Participated in creating a **Powershell** tool to perform NAS Windows share (SMB) migrations when vendors did not provide a direct migration path, added features to monitor failed robocopy of files and prune false failures from log files, as well as, send completion emails of successful migration to the user to perform the final switchover to the new storage path
- Created a **Bash** tool to simplify NAS Linux share (NFS) migrations for teammates to reduce human error and reduce time to complete migration efforts, the tool centralises rsync logs from multiple migration jobs and sends completion emails and failed files to administrators to resolve before performing the final switchover to the new storage path
- Unity Certified Professional: Programmer
- Udacity Data Engineer Nanodegree
- Udacity Site Reliability Engineer Nanodegree

Storage System Engineer Sept 2019 – Present
Saudi Aramco *Dhahran, KSA*

- Provided technical support in running and maintaining the company's multi-petabyte storage infrastructure
- Performed zoning, masking, and mapping for FC SAN, and local remote mirroring for NAS
- Hardened storage security with vulnerability testing and sanitization
- Led data-in-transit implementation project for SMB and NFS shares
- Led data-at-rest encryption testing, benchmarking, and implementation
- Participated and led multiple disaster recovery drills, as well as, actual incident response during outages to ensure business continuity around the clock and during on-call
- Worked on the commissioning of multiple new storage systems to create the SAN network layout, system configuration, and deployment
- Huawei Certified ICT Professional-Storage
- SNIA Certified Storage Professional (SCSP)

PROJECTS

3rdYrProject | *Python, NumPy, scikit-learn* Sept 2017 – June 2018

- Submission for my 3rd year project. Involves using an Enobio EEG to train an SVM to detect whether a user's eyes are open or closed, and after testing and training would play music depending on how long the eyes were open or closed
- Awarded First Class mark

Clink | *Unity, C#, MySQL* Sept 2016 – June 2017

- Worked with a group of students to develop a **Unity** multiplayer Connect 4 game with **C#** where I worked on the online multiplayer aspect of the development, as well as assisting the rest of the team with gameplay
- Awarded Best Looking Project and rated second best overall of the year

TECHNICAL SKILLS

Languages: Python, Go
Frameworks: Flask, FastAPI, Gin, Fiber,
Developer Tools: Git, Docker, Kubernetes, Terraform, Ansible, GitLab CI, GitHub Actions, AWS, Google Cloud, Vim, Visual Studio, VS Code
Libraries: pandas, NumPy, Matplotlib, scikit-learn