Ra'ad Aldakhil

SOFTWARE ENGINEER

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Work Experience

Saudi Aramco *Dhahran, KSA*

SOFTWARE ENGINEER *Nov 2021 - Current*

- 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 a final switchover to new storage path.
- Wrote a system in Python to provide a vendor-agnostic Storage as a Service to internal users for CIFS and NFS shares.
- Created a bash-based tool to simplify NAS Linux share (NFS) migrations for teammates to reduce human error and reduce time to complete migration efforts, the tool centralizes rsync logs from multiple migration jobs, sends completion emails and failed files to administrators to resolve before performing final switchover to new storage path.
- Developed multiple Ansible playbooks to automate storage NFS mount discovery, synchronization jobs, and mount switchover for NFS migrations.

Saudi Aramco *Dhahran, KSA*

STORAGE SYSTEM ENGINEER *Sep. 2019 - Sep. 2020 / Oct 2021 - Current*

- Provided technical support in running and maintaining the company's storage infrastructure.
- Performed zoning, masking, and mapping for SAN, and local remote mirroring for NAS.
- Hardened storage security with vulnerability testing and sanitization.
- Lead data-at-rest encryption testing and benchmarking project.
- Participated and led multiple disaster recovery drills, as well as, actual incident response during outages to ensure business continuity around the clock
- Worked on the commissioning of new storage systems to create the network diagram and the SAN layout for VMs that require SAN storage.

Saudi Aramco *Dhahran, KSA*

DATA ENGINEER *Aug 2021 - Oct 2021*

- Worked on the installation and configuration of Cloudera Data Science Platform and prepared roll-out for data scientists.

Saudi Aramco *Dhahran, KSA*

LINUX SYSTEM ADMINISTRATOR *Sep. 2020 - Aug 2021*

- Providing technical support in running and maintaining the company's *nix OS infrastructure.
- Responsible for patching critical systems and resolving service interruptions to maintain 24/7 operations.
- Writing Ansible scripts to automate routine tasks such as the removal of deprecated packages to ease before automated patches and to free up space on nearly full systems.
- Performed multiple data migrations.
- Lead automation projects using Ansible and UiPath RPA.

Education

The University of Manchester *Manchester, UK*

MENG. (HONS) SOFTWARE ENGINEERING *Sept. 2015 - Jun. 2019*

- Worked with a group of students to develop a Unity based 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. 🔗link
- Tested, debugged, built, developed and deployed a multi-user, multi-threaded, client-server open source game containing over **6000** Java classes and **1800** test cases using Eclipse, Git, Apache Ant, Jenkins, JUnit and SonarQube. 🔗link
- Developed a workshop using EEG(Electroencephalography) creating an outreach activity to teach students in school computer science concepts utilising MATLAB, Python, NumPy, SciPy, and Pandas.
  Focused on merging brain activity analysis and machine learning models(SVM) to make predictions on signals received from the visual cortex to perform a variety of timing-based commands.
  Awarded a First class mark. 🔗link

Certifications

1- Unity Certified Professional: Programmer   2- Huawei Certified ICT Professional-Storage
3- Udacity Site Reliability Engineer Nanodegree   4- Udacity Data Engineering Nanodegree