

Sharhan Alhassan

Cloud Architect & DevOps Engineer

Customer-obsessed cloud architect and full-stack developer with two years of experience in architecting applications, deployment with CI/CD, Linux networking, troubleshooting, infrastructure design, and implementation. Skilled with solid experience in software development life cycle down to server configuration, monitoring, and incident management.

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WORK EXPERIENCE

Cloud Engineer

Cloudfruition Technologies

08/2020 - Present

Essex, United Kingdom (Remote)

Achievements/Tasks

- Configured an ansible-playbook to provision a distributed storage Ceph cluster of osds, monitors, managers, and a Grafana server to monitor real-time server metrics to maintain a 99.9% servers' up-time
- Configured highly available Prometheus servers to scrape granular time-series metric data from data sources which include Amazon EC2 Instances, EKS cluster, and EBS volumes for alerting and quick incidence reporting
- Architected and Deployed a cost-efficient cloud backup storage system for digital video recorders(DVR). Implemented bucket life cycle policies from S3 to Glacier, which reduced storage system's cost drastically to about 50%
- Wrote scripts using networking tools (nmap, nmcli, scapy, dpkt) to examine data network vulnerabilities on devices and ports to secure networks
- Created documentation for IAM roles and policies, network port openings, and AWS Organization with baseline Service Control Policies (SCPs) to enforce security and compliance

Suka Wind and Solar Limited

IT Support Intern

09/2019 - 12/2019

Greater Accra, Ghana

Achievements/Tasks

- Configured and installed computer hardware systems and applications which maintained 100% up-time of services
- Documented procedural management configurations to quicken installation and troubleshooting process
- Diagnosed and troubleshoot hardware systems and network issues to maintain high availability of services
- Conducted regular electrical safety checks on computer systems which resulted in zero accident records

EDUCATION

BSC Electrical and Electronics Engineering

Ashesi University

09/2016 - 06/2020

Greater Accra, Ghana

Capstone Project

- Designed a cost-effective fall detection and smart alarm system for elderly patients using a WiFi module to send alerts to caretakers
- Collected fall data from the device into a database for aggregation and analysis and graphically displayed patient's fall history in a web application

SKILLS

Python

Django

Flask

Linux

AWS

Ansible

Prometheus

Jenkins

Grafana

Git & Github Actions

Ceph

Linux Networking

Docker

PostgreSQL

Bash

ACHIEVEMENTS

The Mastercard Foundation Scholar Program, Ashesi University (09/2016 - 06/2020)

A full scholarship package offered to young people from poor communities who have demonstrated academic talent and leadership potential.

Dean List, Ashesi University

Awarded to students with a GPA of 3.5 or more

Member of Parliament (MP), Ashesi University (09/2018 - 08/2019)

Represented the interests and affairs of my class on a student representative council

PERSONAL PROJECTS

Portable Port Scanner (ppscanner) (08/2021 - Present)

- Creator and Maintainer of an open-source CLI tool that leverages on nmap to make quick and elegant scanning of host devices and ports
- Available on: <https://test.pypi.org/project/ppscanner/0.0.2/>

Musha Python Framework (03/2020 - Present)

- Contributor to a python micro-framework for quick and up-to-speed development of elegant web applications
- Available on: <http://musha.ktechhub.com/>

Cloudbintech (Lead Developer and Content Creator) (12/2019 - 07/2020)

- Develop and maintain the life cycle development process of a highly available and fault-tolerant Django web application integrated with Git actions for automated deployment
- Write technical content on application deployment, CI/CD, DevOps, networking and troubleshooting, Django framework, and other topics within the life cycle stages of software development
- Available on: www.cloudbintech.com

CERTIFICATES

AWS Certified Solutions Architect – Professional (06/2021 - 06/2024)

Validation Number: LKXD14XL3NQQQVWK

AWS Certified Solutions Architect – Associate (09/2020 - 09/2023)

Validation Number: 08S0CCWJ2FQ11D9P