Osama Faqhruldin

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Languages & Tools

• C Kubernetes • Docker React · Assembly

 Go • Git · Node.JS VHDL

 AWS TypeScript ASP.NET Django

C++

 Istio • SQL C# Kafka Java

 Terraform · Python

Skills

• Highly skilled in AWS, cloud-native technology and infrastructure.

- · Experienced with architecting solutions to use Infrastructure as Code tools, such as Terraform and AWS CloudFormation to automate infrastructure management and reduce manual workload.
- · Experienced with Architecting and developing MicroServices.
- Skilled with both Containerization and Container Orchestration Systems, specifically Kubernetes.

Work Experience

Software Engineer - GitOps

Thomson Reuters, Toronto, Ontario, Canada – (May 2020 - Present)

- · Architected and led development of new Kubernetes Ingress Pattern using Network Load Balancers (NLBs); designed and implemented zero-downtime migration procedure to move from Classic Load Balancers to new NLB solution, ensuring several clusters in preproduction and production environments continued to receive traffic during migration.
- Implemented Kubernetes Secret Store CSI Driver across several clusters and migrated ingress certificates from Kubernetes **ExternalSecrets** with *zero-downtime* in pre-production and production environments.
- Designed and wrote several unit tests for infrastructure status and readiness using Go to verify post-deployment status through CICD
- Provided 24/7 on-call support as part of the engineering team support rotation to customers across several production Kubernetes clusters maintaining SLA of 99.99% uptime.

Software Development Intern

Thomson Reuters, Toronto, Ontario, Canada – (September 2019 - December 2019)

- Designed and developed CICD Pipeline to enable application developers to easily deploy onto the service mesh platform using AWS CodePipeline and Helm.
- Developed mission-critical components of the platform using Infrastructure as Code tools such as Terraform and AWS CloudFormation.
- Architected several components of production-grade **Kubernetes** cluster with an **Istio** service mesh.
- · Developed team's DevOps practices using SDLC principles such as Git branching strategies and automating processes by implementing the GitOps methodology.

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Software Engineering Intern

Flipp, Toronto, Ontario, Canada – (January 2019 - April 2019)

- Designed core features of different parts of the Snicket platform, a net-new Event Driven MicroServices system that leverages
 TypeScript-Node.
- Led the design on Snicket's Database and Product Asset Management MicroService which use AWS RDS and AWS S3 respectively,
 providing a high business value through automating the management of product images for vendors which includes fetching, cropping,
 resizing, and storing the images.
- Created multiple improvements and fixes to Snicket's Docker and CircleCI environments and integrations with AWS to increase environment-propagation efficiency.
- Designed unit tests and integration tests and developed them using jest in order to promote a fail often, fail fast environment and improve
 the reliability of Snicket.

Projects

Vigilant — Final Year Design Project (8 months)

- Worked with team to create YOLO models to detect specific human postures and perform facial detection in case of potential emergencies.
- · Designed and created a Python backend system which lived on AWS ECS and integrated the YOLO models with it.
- · Integrated backend with team's AWS Kinesis video feed to provide video frames to the detection models.
- · Designed and developed a simple React.JS frontend in order to display the processed video feed.

Road Pothole Detection System (2 months)

- Created a mobile web-app using **React.JS** which turns the user's smartphone into an **Internet of Things** device that provides a data-feed of velocity and acceleration vectors using the phone's gyroscope and geolocation.
- Developed a simple **adaptive algorithm** which attempts to predict the availability of a pothole at the driver's current location based on the acceleration and geolocation data provided by the smartphone.
- Found a success percentage of approximately 65% with limited data used to tune the algorithm.

Education

University of Waterloo

Waterloo, Ontario, Canada

Bachelor of Applied Science in Computer Engineering Honours Program — June 2020

AWS Certification

AWS Certified Solutions Architect - Associate — January 2020

View certificate at: https://www.credly.com/badges/701b5a9e-582b-4560-9909-df1c80d9334a/public_url

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