Osama Faqhruldin

+1 (226) 339-3244 My website

onfaqhru@gmail.com Linkedin.com/in/OsamaFaqhruldin

Languages & Tools

- Kubernetes
- Go
- AWS
- Istio
- Terraform
- Docker
- Datadog
- Git
- Bash
- Python
- C
- C++
- Django
- C#
- SQL
- Gatsby
- Node.JS
- TypeScript
- Java

Certifications

AWS Certification

AWS Certified Solutions Architect - Associate — January 2020

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

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 and created a zero-downtime migration procedure moving from existing Classic Load Balancers on large scale clusters in production environments using **Istio** and **Terraform**.
- Implemented **Kubernetes** Secret Store CSI Driver across several clusters and migrated ingress certificates from Kubernetes ExternalSecrets with zero-downtime in production environments.
- Designed and wrote several unit tests for infrastructure status and readiness using **Go** and **TerraTest** to verify post-deployment status through CICD Pipeline.
- Participated actively in *L1* on-call rotation of 1 week shifts of 24/7 support spread over the team of 7 engineers.
- Participated in the definition and implementation of the **SLOs**, **SLAs**, and **SLIs** for the Service Mesh Team.
- Designed, implemented, and updated several **DataDog** dashboards and monitors across multiple environments using **Terraform**.
- Refactored several parts of the project's **Terraform** repositories to make them more sustainable for creating and maintaining more than 10 highly available large clusters.

Software Development Intern

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

- Designed CICD Pipeline using **Terraform** to deploy **Kubernetes Service Mesh** on **EKS** from **GitHub** Repository using the *GitOps* approach.
- Participated in the design of CICD Pipeline spawner using **Terraform** to enable application developers to easily create their own CICD Pipelines to deploy applications onto the service mesh platform using **AWS CodePipeline** and **Helm**.

- Architected several components of large scale **Kubernetes** cluster with an **Istio Service Mesh**.
- Developed team's best practices using SDLC principles such as *Git Branching* strategies and automating processes by implementing the *GitOps* methodology.

Software Engineering Intern

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

- Designed core features of different parts of the Snicket platform using **TypeScript**-**Node** using *Event Driven MicroServices* architecture.
- Led the design and Implementation 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 several operations on the images using **Sharp**.
- Created multiple improvements and fixes to Snicket's **Docker** and **CircleCI** environments.
- Designed *unit* and *integration* tests and developed them using **Jest** in order to promote a *fail often, fail fast* environment.

Projects

Vigilant

- 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.

Education

University of Waterloo

Waterloo, Ontario, Canada

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