

TURKI ALQAHTANI

Software Engineer

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TECHNICAL SKILLS

Front End | ReactJS, NextJS, Typescript.

Back End | C#, Typescript, Java, .NET, NodeJS

Infrastructure | AWS, Docker, Kubernetes, PostgreSQL, Elastic Search, Apache Kafka.

EXPERIENCES

Software Engineer @confidential

Jun 2022-Present

• Data Analysis Platform

- Developed a comprehensive platform for **analyzing and mapping large number of documents**, focusing on scalability.
- Created a robust backend server using **.NET Framework**, ensuring reliable data processing and management.
- Utilized **Elastic Search** to perform real-time, **full-text searches** across extensive document sets.
- Employed **MongoDB** to manage dynamic data associated with documents.
- Leveraged **PostgreSQL for storing UUIDs** of each document and it's metadata.
- Implemented **Redis** for tracking file status inside the analysis pipeline.
- Deployed the application and related services on a local **Kubernetes cluster** using a private Docker Registry.

• Communication System

- Developed and Deployed a versatile and feature-rich communication system, encompassing instant messaging capabilities, **VOIP** and **End to End Encryption**.
- Executed a **microservices architecture** using **NodeJS with Typescript**, enhancing scalability and maintainability.
- Established a robust **Apache Kafka-based message queue system** for optimized communication flow.
- Configured a resilient **MongoDB cluster**, underpinning high-performance data operations.

• Devops Pipeline

- Designed and Implemented comprehensive DevOps pipeline, utilizing **Kubernetes** to enhance deployment processes and operational efficiency.
- Orchestrated the setup and management of a robust **Five-node Kubernetes cluster on AWS using KubeAdm**, ensuring high performance and reliability for critical applications.
- Implemented **CI/CD workflows** using **GitHub Actions** to dramatically reducing deployment times and supporting continuous integration and delivery across multiple environments.
- Configured and maintained environment variable settings for **Development, Staging, and Production environments** to allow for secure and efficient operation of applications.

PROJECTS

Tadreebi

Aug 2022 - Jun 2023

- Designed and Developed a platform that connects **Saudi Universities with Ministries, Companies and Institutions for COOP Training**. The goal behind this platform is to simplify the process behind the application process.
- Tadreebi allows the student to apply to any Institution in the system and for the representative of that institution to view the list of application that have applied and view their profiles.
- Tadreebi allows students to apply to any work environment and view the status of their application. The system also provides **interview system** between the student & the representative from the Institution using **WebRTC**.

EDUCATION

University of Imam Muhammad Ibn Saud

Jan 2019 - Jun 2023

- Major: Bachelors of Computer Science with Honors.
- GPA: 4.5.

CERTIFICATIONS

- Certified Kubernetes Application Developer (CKAD)
- Microservices with .NET and Azure on coursera.
- Advanced NodeJS with AWS on udemy.
- Enterprise DevOps & Cloud Infrastructure on frontend masters.