

# TURKI ALQAHTANI

## Software Engineer

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## EXPERIENCES

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### 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.
- Dockerized** the backend API and frontend for consistent and scalable deployment.
- Deployed the application and related services on a local **Kubernetes cluster** using a private Docker Registry.

#### • Communication System

- Led the development of Zajel, 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.
- Implemented state-of-the-art **Elastic Search** logging mechanisms for superior operational insights.

#### • 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.
- Integrated a **SonarQube Docker container within the CI/CD pipeline** to automatically scan build containers for security vulnerabilities and code quality issues, reinforcing code integrity and application security.
- Configured and maintained environment variable settings for **Development, Staging, and Production environments** to allow for secure and efficient operation of applications.

## PROJECTS

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### Tadreebi

Aug 2022 - Jun 2023

ReactJS | .NET | Python | Docker | PostgreSQL

- 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

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### University of Imam Muhammad Ibn Saud

Jan 2019 - Jun 2023

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

## CERTIFICATIONS

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- Docker & Kubernetes Bootcamp on udemy.
- Microservices with .NET and Azure on coursera.
- Advanced NodeJS with AWS on udemy.
- Enterprise DevOps & Cloud Infrastructure on frontend masters.