

TURKI ALQAHTANI

SOFTWARE ENGINEER

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TECHNICAL SKILLS

Front End | ReactJS, NextJS, TypeScript.

Back End | .NET, NodeJS, PostgreSQL, MongoDB, Redis, Elastic Search, Apache Kafka.

Infrastructure | AWS, Docker, Kubernetes.

EXPERIENCES

Full-Stack Software Developer @confidential

Jun 2022-Present

• Data Analysis Platform

- Developed a comprehensive platform for **analyzing and mapping large documents**, focusing on efficiency and scalability.
- Created a robust backend server using **.NET & NodeJS** Frameworks, 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 their metadata.
- Implemented **Redis** for caching the latest viewed documents and their associated data, **enhancing system performance**.
- 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

- Lead 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.
- Incorporated **end-to-end encryption** using **Diffie-Hellman** for secure communication.
- Integrated MINIO for scalable and efficient object storage solutions, catering to extensive data needs.
- Implemented state-of-the-art **Elastic Search** logging mechanisms for superior operational insights.

PROJECTS

Tadreebi

Aug 2022 - Jun 2023

ReactJS | NodeJS | 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

University of imam muhammad ibn saud

Jan 2019 - Jun 2023

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

CERTIFICATIONS

- Docker & Kubernetes Bootcamp on udemy.
- Microservices with .NET and Azure on coursera.
- Advanced NodeJS with AWS on udemy.
- Full-Stack Developer Bootcamp on udemy.