

# Ibrahim H. Alraigi

Software Engineer, Full-stack Web Developer.

Software Engineer, with knowledge in various fields, self-learner, passionate about entrepreneurship, exuberant team player, and great listener, would always love to take care of projects from requirements elicitation to production.

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## EDUCATION

### King Fahd University of Petroleum & Minerals

Bachelor of Software Engineering (09/2014 - 12/2019)

Dhahran, Eastern Province, SA

Major GPA: 3.58 / 4.00 - Second honor

### Northeastern University

Student Exchange Program (08/2018 - 12/2018)

Boston, Massachusetts, US

GPA: 3.92 / 4.00 - First honor

## EXPERIENCE

### Software Engineer, Full-stack Web Developer

Real Estate Digitalization Initiative (VRO) • Full-time

(07/2020 – present)

Participated in building multiple projects which mainly digitize existing services that have been manual for years.

#### Built and maintained many backend solutions, such as:

- Constructed architecture for newly created projects and implemented them.
- Built a backend service that aggregate and process data from multiple data sources and publish them through Kafka Connector to Azure Event Hubs, and then stream them to a client through .net SignalR.
- Built a backend layer that abstracts and encapsulates communicating with a legacy system.
- Built a backend package that is used to facilitate communication between internal microservices.
- Implemented search functionality with caching and indexing for better performance.
- Maintained closely complex backend services.
- Made multiple services to be used as external APIs for third parties.
- Dockerized services for easier deployment.
- Followed some best practices such as SOLID and CQRS; Implemented many design patterns such as Builder, Factory, Mediator, Proxy, Command, Facade, State, and Singleton.

#### Database:

- Performed database normalization on already-in-production databases.
- Handled database schema and data migrations when needed.
- Generated dynamic reports based on existing data to be consumed by external services.
- Added indexing to optimize some recurrent queries.

#### Frontend:

- Revamped some services frontend completely with a new identity.
- Followed best practices for state management, reusable components, routing, project structuring.
- Made packages that have common domain-specific components to be reused within other projects.

#### Technologies used:

.NET Core (Mediator, CQRS, SignalR, FluentAPI, FluentValidation, LINQ, Dapper, ..), Azure Event Hubs, SQL, Docker, Kafka, Kafka connector, VueJs, Angular, RxJS, TypeScript, and some others.

### Software Engineer, Full-stack Web Developer

MAANA • Full-time

(02/2020 – 04/2020)

Dammam, Saudi Arabia

- Worked on multiple projects, tailored for oil & gas companies, namely Aramco and Maersk Drilling.
- Worked on frontend with React & GraphQL and Backend with Python & GraphQL.
- Followed micro-services architecture.
- Optimized some database queries & backend algorithms.
- Refactored an application frontend fully using React.

### Software Engineer, Full-stack Web Developer

Sarahah • Part-time

(06/2020 – 08/2020)

- Implemented the backend using .NET Core.
- Followed multi-layer architecture, and known design patterns like unit-of-work, repository & singleton.
- Used multiple libraries & technologies like Auto-mapper, FluentAPI, FluentValidation, swagger & JWT tokens.
- Implemented frontend with React (formik, mobx & some others).
- Deployed the system to Azure.

### Full-stack Web Developer, UI/UX

Freelance

(08/2019 – 12/2019)

- Conducted meetings with clients and elicited their requirements.
- Made decisions for web apps architectures.
- Built clients' web apps both frontend and backend.
- Reconstructed exiting apps UI / UX fully.

### Software Engineer, Full-stack Web Developer

Remal Ventures • Intern

(06/2019 – 08/2019)

Dammam, Saudi Arabia

- Saved company's money, time and energy by implementing an in-house system to replace two external already-in-use systems.
- Built the project from scratch.
- Gathered requirements from potential system users.
- Designed the system's architecture (followed MVC).
- Implemented the system using .NET Core.

## Full-stack Web Developer

Classera • Intern

(06/2018 – 08/2018)

Jeddah, Saudi Arabia

Developed a complete module in Classera's main system:

- Implemented backend with CakePHP, following MVC architecture.
- Made database structure needed with ER diagram, then developed it with SQL.
- Implemented consistent frontend for the added features.

## SKILLS

### Software Engineering

- Requirements Engineering
- Software Design
- Software Development
- CI/CD
- Design Patterns
- Software Architecture
- UML
- Containerization

### Web Development & Programming Languages

- .NET Core
- Node.js
- RESTful & GraphQL
- SQL & NoSQL
- Kafka, Event Hubs
- SignalR Streaming
- Docker
- React
- Angular
- Vue
- PWA
- Web Sockets
- Caching
- C#
- Java
- TypeScript
- JavaScript
- Python

### Data Science

- Data Analysis
- Data Cleaning
- Data Visualization
- Machine Learning
- Data Wrangling

### Design

- UI / UX
- Adobe XD
- Adobe Photoshop

## PROJECTS

### Learnize (04/2020 – 06/2020)

- Social media educational mobile app.
- Backend: Node.js, GraphQL, MongoDB, Google Books API.
- Mobile app: React Native, GraphQL, Redux, Hooks, React-navigation.
- Deployed to AWS (Amazon web services).

### Eventor (senior project) (2019)

- (Awarded best senior project among all other department projects)*
- Elicited, gathered and documented all requirements using UML.
  - Constructed software design using UML and following design patterns such as Façade, Method factory and MVC.
  - Implemented the web app using MEAN stack (i.e. MongoDB, Express.js, Angular, Node.js)

### Filtark (08/2018 – 01/2019) [↗](#)

- Made this project from scratch, including the design, implementing the web app, deploying, maintaining and marketing.
- Backend: Node.js, Express.js, MongoDB, PassportJS, Nodemailer.
- Frontend: Fabric.js, Google maps API, Datetimepicker, i18n, jQuery.

### Communicate Data Findings (2019) [↗](#)

- Investigated a huge "Airline on-time performance" dataset that contains over 7 million flight records with 29 features.
- Explored, visualized and analyzed using Python's Pandas, NumPy, Matplotlib, Seaborn and some other libraries.

*Other projects & details can be found on my website.*

## CERTIFICATES

### Docker Mastery: with Kubernetes + Swarm

(10/2020 - 12/2020)

Udemy

Covers Docker, Dockerfiles, Compose, Kubernetes & Swam, learning and using containers end-to-end, from development and testing, to server deployments and production.

### The Web Developer Bootcamp (08/2017 – 12/2017) [↗](#)

Udemy

Covers HTML5, CSS3, JavaScript, Bootstrap, DOM Manipulation, jQuery, NodeJS, ExpressJS, REST, MongoDB, PassportJS.

### Data Analyst (04/2019 - 7/2019) [↗](#)

Udacity

Covers using Python, SQL, data analysis, data wrangling, data cleaning, data visualization, machine learning

## VOLUNTEERING

### Developer, Designer, Event Organizer (2018 – 2019)

TechBench Club

### Volunteer group leader (2014)

KFUPM Volunteering Unit