

# Sahal A. Alturaigi

Software Engineer – AWS Certified – Scrum Certified

Diligent, process- and results-driven, teamwork-focused, developer that comes from a broad technical background in cybersecurity, data analytics, and web-app development in FMCG sales and Health Information Systems. Bilingual in English (native speaker) and Arabic.



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## Technical Skills

### Web-app

### Development

ASP.NET Core, SQL Server, PostgreSQL, MongoDB, Redis, JavaScript (Node.js, Express), AWS services, Unity, Dapper, xUnit, Dapper, Entity Framework.

### Concepts and

### Methodologies

Microservice architecture, Agile (Scrum/Kanban), MVC, Monolithic apps, REST, gRPC, SPA, Health Information Systems (HIS), Cloud, SOLID, Test-Driven Development, Domain-Driven Development, most major OOP design patterns.

### Data Analytics

Python, Jupyter Notebooks, QlikSense, AWS ML Suite

## Work Experience

### Senior Backend Engineer

Cloud Solutions – Riyadh, Saudi Arabia

08/2020 – Present



- Part of special development team for building a new virtual healthcare mobile application on Android and iOS. App handles full SOAP note, prescriptions, lab/radiology orders, physician appointments over video call, and patient health information records.
- Responsible for electronic medical record microservice which handles effectively all of patient's health information and physician information.
- Helped adopt team to Test-Driven Design process. Responsible for writing unit and integration tests for some microservices as well as teaching the backend team on how to implement TDD into their microservices.
- Coming up with solutions on increasing performance of the application along with benchmarking methods so as to present proof to the business.
- Responsible for migrating old, legacy applications into newer, modern, web-based ones.

### Project Manager/Data Engineer

Almarai – Dubai, UAE

08/2018 – 08/2020



- Gathering insights from company's central data and building stories on areas to reduce costs or increase margin.
- Part of a three-person team for an SKU assortment optimization project that utilizes clustering and multi-linear regression models. Doing monitoring, statistics, and building dashboards for the team; interfacing with vendors.
- Rolling out of SKU assortment optimization project across the entire gulf (KSA, UAE, Bahrain, Oman, and Kuwait) for over 50,000 stores.

### Full-Stack Web Developer

Almarai – Riyadh, Saudi Arabia

03/2016 – 08/2018



- Built in-house web applications for corporate and sales workflows.
- Designed and implemented both backend and frontend for an internal sales workflow with over 500,000+ transactions processed. Application is still live.
- Created workflow for registering new users for IT device access, VPN access, and internet access, thus removing the need for paper-based approvals. Processing time for access to services has been reduced to 3 days down from 2 weeks. Application is still live.

## Web App Penetration Tester

Electronia – Riyadh, Saudi Arabia

05/2015 – 03/2016

- Performed web application penetration tests, code analysis, and built on-the-job tools for the team such as port scanners, crackers, SSH bots, etc.
- Hardened and worked in security operations center for a Saudi Ministry of Foreign Affairs.



## Education and Professional Certificates

### AWS Cloud Practitioner

Amazon – CLF-C01

January 2023

### Data Analysis, Pro Intensive

Codecademy Pro

03/2018 – 06/2018

### Professional Scrum Master I

Scrum – PSM-1

Summer 2022

### Almarai Future Leader Program

The Institute of Leadership & Management

09/2015 – 09/2018

### Almarai Leadership Exploration Program

BTS Group AB

09/2018 – 09/2019

### Usable Security Course

University of Maryland

Summer 2015

### Machine Learning Fundamentals

Codecademy Pro

02/2019 – 04/2019

### Bachelor of Computer Science

University of Colorado at Boulder, USA

08/2010 – 12/2014

## Volunteering + Extras

### GameFounders

Video game development

Incubator/Accelerator

01/2023 – 05/2023

### G8 Hackathon

3<sup>rd</sup> place winner (20,000 SAR prize)

18/08/2022 – 24/08/2022



Please check out my website via the QR Code

Or through: <https://www.sahle-alturaigi.com/>