

Research interests

**Big Data, Distributed processing, Data analytics and Scalable time series.**

Experience

**Graduate Teaching Assistant**

### *Worcester Polytechnic Institute*

### August 2021 – Present

### Assist students in the graduate course "Design of Software Systems". In addition to grading students' assignments and projects.

**Solution Architect**

*Saudi Authority for Intellectual Property*

### November 2019 – January 2021

### Stabilized the authority’s portal and optimized the performance and security. Designed and implemented in-house solutions. Provided consultation and support for other teams and developers in the authority.

**Software Engineer**

*King Faisal Specialist Hospital and Research Centre*

### November 2013 – November 2019

### Developed applications for different platforms: Web applications using JavaServer Faces, console applications using Java and iOS applications using Objective-C.

**Software Engineer Intern**

*RVEALR*

### February 2018 – May 2018

### Prototyped a client dashboard and REST API back-end, with multiple views and functionalities, to allow the client to manage and monitor the resources.

**Software Engineer Intern**

*TURBO Studios*

### September 2017 – January 2018

### Developed a connection to AWS in a supporting tool (Admin Tools) which perform multiple AWS related actions. In addition to Improving and fixing bugs in Spring Framework back-end system.

### **Software Engineer Intern**

## *King Faisal Specialist Hospital and Research Centre*

### June 2012 – August 2012

### Enhanced Emergency Management System (EMS) by adding administrative features to allow the administrator to configure and set up the emergency unit.

Education

### **Worcester Polytechnic Institute**

### Ph.D. In Computer Science (2021 – 2025)

### **Stevens Institute of Technology**

### M.S. In Computer Science (2017 – 2018)

## **Imam University**

### B.S. In Computer Science (2008 – 2013)

Awards & Achievements

## **Winner Best Hack Using a NYC API**

## *HackNY Hackathon Spring 2017*

Intel, MongoDB, Twilio and others

*https://devpost.com/software/mansplaintome*

## **Winner Most Original Project**

## *DuckHacks Hackathon 2017*

Google and JPMorgan Chase & Co.

*https://devpost.com/software/duckhacks-share-your-taste*

Projects

**Sehaty (My Health)**

## *King Faisal Specialist Hospital and Research Centre*

## Developed the official iOS application for King Faisal Specialist Hospital and Research Centre’s patients. Worked as the lead developer; developed all app views that retrieve the user's data from a backend database. In addition, managed the user's session and implemented some of the iOS 10 SDK features such as: LocalAuthentication, UserNotifications, HealthKit and EventKit.

## **Healthy Lifestyle**

## *King Faisal Specialist Hospital and Research Centre*

## Created a health tracking application for KFSHRC's patients so they be monitored remotely by their physician. In addition, created a REST API to store all the data using Java. Also, developed the controller inside the official iOS app "Sehaty" which interacts with both the REST API and the iOS HealthKit.

## **Various Big Data analytics projects**

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## **Various full stack development projects**

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*More projects https://kalua.im/projects/*

Certificates

**Advanced Study in Software Construction**

*Massachusetts Institute of Technology*

[*http://web.mit.edu/6.031/www/fa19/*](http://web.mit.edu/6.031/www/fa19/)

**React Nanodegree**

*Udacity*

*https://confirm.udacity.com/563VRG2S*

**A developer's guide to the Internet of Things (IoT)**

*Coursera* (9J6KF7RTGT3H)

*https://www.coursera.org/account/accomplishments/verify/9J6KF7RTGT3H*

**Red Hat Certified System Administrator**

*Red Hat* (140-006-149)

*https://www.redhat.com/rhtapps/certification/verify/?certId=140-006-149*

Skills

**Languages** Java, Python, JavaScript, Scala, Objective-C

**Frameworks** Express.js, Spring Boot, Flask

**Frontend** React, Vue, HTML5, CSS3, jQuery

**Infrastructure** SQL (PostgreSQL), NoSQL (MongoDB), Redis

Hadoop, Spark, Pig, Hive

**AI / ML** Scikit-Learn, TensorFlow, PyTorch

**CI / CD** Git, Jenkins, Docker

**Cloud** AWS

Languages

**English** Fluent

**Arabic** Native

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**LinkedIn** https://www.linkedin.com/in/khalidalnuaim/

Khalid Alnuaim

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https://kalua.im/resume/