# Khaled AWAD
## Software Engineer | AWS Certified Solution Architect

in khaledbnmohamed  ⌂ khaledbnmohamed
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⦿ Alexandria,Egypt  ⧉ Website

I'm introduced as a Cloud Engineer | Software Engineer | Backend developer | ReactJS on rails developer but I'd like to introduce myself as an SDE who is looking to build something that makes people's easier or at least something eventually I'd be proud of

## 🎓 EDUCATION

**2019** | **B.S.c in Computer and Communications Engineering**
> Faculty of Engineering, Alexandria University - **GPA : 3.1**

## 💼 PROFESSIONAL EXPERIENCES

**Current**
**April 2021** | **Cloud Engineer | Rackspace Technology , ALEXANDRIA-Egypt**
> AWS Certified Solution Architect
> Writing infrastructure as code using CF and terraform for multi-region fault tolerant systems
> Working on Building and maintaining Highly Available and Scalabe Infrastructure
> Writing Automation scripts for services like EC2,ECS,EKS

`AWS` `Terraform` `CloudFormation` `IaaC` `SSM`

**February 2022**
**November 2020** | **Graduate Research Assistant [Part time] | Alexandria University , ALEXANDRIA-Egypt**
> Working on a blockchain solution for storing Islamic Hadiths preservation using multiple institutions as validators, published the paper at "Computers" - MDPI journal

`Blockchain` `Hyperledger Fabric`

**April 2021**
**August 2019** | **Software Engineer | eSpace , ALEXANDRIA-Egypt**
> Develop multiple optimized high performing pilot projects using backend Rails and Frontend ReactJS and PostgreSQL for the Database
> Analyzing, monitoring and optimizing live projects using monitoring tools like New Relic and Sentry

`Ruby on Rails` `ReactJS` `Hooks` `react-testing-library` `NewRelic` `PostgresQL` `Jenkins` `RSpec` `Jest` `Docker` `Redis`

## ☰ TECHNICAL SKILLS

| | |
|---|---|
| **Programming Languages** | **Ruby**, **Python**, **Java** , **Kotlin**, (C#), JavaScript |
| **Frameworks** | **Rails**, **ReactJS NodeJS**, Laravel, Bootstrap, **Keras** |
| **Development tools** | **AWS**, **Jenkins**, **Jira**,Sentry,New Relic,**Unity3D**,VSCode, Atom, git |
| **Databases** | MySQL, PostgreSQL, DynamoDB |

## 🖥 PROJECTS

**\* MEMES MESSENGER CHATBOT** JAN 2019 - CURRENT
⌂ khaledbnmohamed/YourVirtualBuddyChatbot
⧉ Live app FB messenger
⊠ Facebook Messenger chatbot that uses Imgur API and sends you your daily dose of memes

`NodeJS` `NLP` `APIs` `DialogFlow` `Heroku` `PostgresSQL`

**\* COLDPLAY AR WORLD** JAN 2019 - FEB 2019
⌂ khaledbnmohamed/Coldplay-AR-Video-Experience
⧉ More details
AR based on Vuforia Unity app shows music videos for coldplay. using "on-cloud" videos and local storage.

`Unity3D` `ARCore` `Vuforia` `Augmented Reality`

## 🖥 PUBLICATIONS

**[PAPER] A SECURE BLOCKCHAIN FRAMEWORK FOR STORING HISTORICAL TEXT : A CASE STUDY OF THE HOLY HADITH** COMPUTERS 2022-03-14
⧉ DOI : 10.3390/computers11030042
A permissioned blockchain stores Prophet Mohamed PBUP Hadiths in a private distributed ledger using Islamic organizations as main nodes

`Blockchain` `Hyperledger Fabric` `NodeJS`

**[PAPER] BUILDING YOUR KINGDOM : IMITATION LEARNING FOR A CUSTOM GAMEPLAY** IEMCON 2019 - 17 OCTOBER 2019
⧉ DOI : 10.1109/IEMCON.2019.8936134
Building a personalised gaming experience with a reinforcement learning brain on the top of Imitation Learning Brain

`ML` `Imitation-Learning` `Reinforcement Learning`

## 🗓 EXTRA-CURRICULAR EXPERIENCES

**2016** | **Facilitator | EYouth "Social entrepreneurship organization" , EGYPT**
> EYouth organize annual competition for ideas and regular camps in different governates across Egypt.

**2016** | **Mechanical Team member | "Let's Make a Robot" competition , ALEXANDRIA UNIVERSITY**
> Designing a light weight, small size rescue robot, making sure it fits the competition standards.

**2014** | **Trainer | Shift network (Euro-Arab youth Initiative), ALEXANDRIA**
> Gave several sessions within projects related to culture diversity, youth empowerment.