# OSAMA AL BANNA

#### SOFTWARE DEVELOPER

### **PROFILE**

Extremely motivated to constantly develop my skills and grow professionally. I am confident in my ability to come up with interesting ideas.

# CONTACT

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# **BIRTH 1996**

# HOBBIES

Reading | S-Walking | Sci-Fi Movies Watching

# EXPERIENCE

Most Of My Experience From Personal Projects
JUN 2012- PRESENT

I have never worked at any company, because of my college, so i am self-employed

## **EDUCATION**

Formal: Al-Azhar University, BSE Degree

Certificate in Civil Engineering

Informal: Online Training

JUN 2012- PRESENT

- Most Of Courses From Pluralsight, WintellectNOW, Packt, Infiniteskills
- I Have Been Completed more than 95 % Of Pluralsigh C# And .Net/Core Paths
- Also finished many top rated udemy courses

# PERSONAL SKILLS & INFORMATIONS

# Arabic Native English (US, UK) Reading Writing Speaking Listening Technical

## LEARNING STYLE

# PROFESSIONAL SKILLS

Due to long time of learning from online Courses, and create projects under request i gone through many technologies, some still work with and some left it, some love it some hate it, and others strongly sticked with

• Please use the next symbols guide to figure out tags and icons meaning. I will use this way To explain many things without many words, thanks.

#### S-GUIDE



Love It



Don't prefepre to work with



Extensive working with



Real World Projects



**Experience Level Expectation** after stop practicing skill



Still the same



Go down



Frequently used technologies



SKILL

Techhologies have been studied but no much practicing Or Shallow Knowledge



Practiced for less than 3 months



Intermittent Practicing



Studied in College



Intermittent Practiced from 3-6 months, but left it

With intermediate level projects



Software Engineering Technical Skills

FH: First Half Of Year

SH: Second Half Of Year



Additional details at the last page

START-FUD | IT RATING | TAGS

Please Notice: any exclumtion marks leads to external link eg. github repo, to prove case

→ linking not completed yet. due to need to configure github private repositories for partial/complete publicity

	START-END	LI KATING	IAGS
С	2014 SH - 2017 FH	••••••	<b>₩</b>
C++	2012 SH - 2017 FH	••••••	
C# .Net	2015 FH - Present	••••••	<b>\$</b>
C# .Net Core	2017 SH - Present	••••••	<b>₩</b>
Asp.Net Core MVC	2018 FH - Present	••••••	<b>* \$</b>
Asp.Net Core Razor	2018 FH - Present	••••••	<b>*</b>
Asp.Net Core Web AF	PI 2018 FH - Present	••••••	<b>* \$ 1</b>
WPF.Net + Core	2018 FH - Present	••••••	<b>* \$</b>

Python	2015 FH - Present	••••••	<b>\$</b>
Java	2015 SH - Present	••••••	•
PHP (pure)	2015 SH - Present	••••••	<b>\$</b>
Laravel	2017 SH - 2018 SH	••••••	<b>*</b> • • • • • • • • • • • • • • • • • • •
Javascript	2015 SH - Present	••••••	<b>**</b>
NodeJs [Internal API]	2015 SH - Present	•••••	<b>*</b>
Typescript	2017 FH - Present	••••••	<b>₩</b>
MySql	2015 SH - Present	••••••	
MongoDB	2016 SH - Present	••••••	<b>*</b>
SqLite	2017 FH - Present	••••••	<b>\$ \$ 2</b>
Angular + Material	2018 FH - Present	••••••	<b>\$</b>
React	2018 FH - Present	•••••	3
Html	2015 FH - Present	••••••	
Css & SCSS	2015 FH - Present	••••••	4
Android	2016 SH - 2018 SH	•••••	
Xamarin	2018 FH - 2019 FH	•••••	



#### Dependency Injection (DI / IoC)

- Autofac
- Default .net Core DI System

#### Reactive Programming

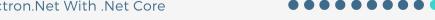
- Rx js , Rx.net
- NgRx

#### Desktop Apps Developing

- Prism (WPF)
- Electron
- NwJs (NodeWebKit)

i am the writer of nwjs auto core complete ts library (the only available lib)





- i am the writer of Electron.Net Controller Based Convention System Allowing porting MVC Pattern from .net core to electron js , using reflection
- Also , writer of ElectroWatcher tool to reload apps with changes and reducing that time from + 4.5 minutes to just -5 seconds



#### General Software Design Patterns

deep understanding of SOLID design principles and most modern patterns eg. Builder, Factories, Singleton, Adapter and many others

#### • architecture patterns

- MVVM: For Wpf and Xaml Based Apps Like Xamarin Forms
- MVC: For Asp.net Core and Angular
- REST: For Implementing Restful Web Api
- IoC: Inversion of control, with its implementation: DI
- Service locator: used in .net core and wpf specially with prism dynamic modules loading
- N-Tier: For any type of application: based on Layered pattern, Ceparation Of Concern
- Microsoft Clean Arch Specification / Implementation Of .Net Core
- ... and some others patterns

#### • API design Using:

- Method chaining pattern
- Generic features of programming languages for run time checking eg.(C# Roslyn )

#### • Design Paradigms

- Object Oriented Programming: For every day project
- Functional Programming: For API based projects or any ORM like project
  - used frequently with javascript / typescript
  - used with c# for some projects

#### DataStructure

- Deep understanding of many modern data structures
  - also implementing many of them with C++ 98 / 11 & C99

#### Algorithms

- Studied many algorithms and implementing some of them with many different languages
- Know how to calculate / check algorithm complexity level
- No Deep Diving Into algorithms analysis or even create complex algorithms

#### • Code

- Write well organized code respecting naming conventions and modern styles
- Write Modular and Extensible Architectural Code



Concurrent toolkits: Akka.net (wpf, console)

Reactive Programming : ReactiveUI (tested only with WPF)

MicroServices: with gRPC, RabbitMQ, [C#, Python, Java] No [GO Lang]



Unity 2d/3d, OpenGI(C++), Qt(c++), Flask, Django, ExpressJs, Ruby/Rails Wordpress; left it due to its very poor design, using Spaghetti paradigm  $_{ullet}$ 



# O ADDITIONAL MARKED DETAILS

- 1 Implementing Booth Restful API , GraphQL
- 2 I have been worked with many database system like
  - sqLite: for variant application types
  - litedb: as an embedded NoSql database for most lightweight wpf applications
  - Akavache: for High Performance caching
  - RethinkDB
  - Also work with MS Access DB and MS Sql Server [E & CE]
    - but with EF[net/core], so no deep digging in it's sql instructions
    - Just Using EF as ORM
- After working with react for more than one year, i can say i don't like how react Eco-System work, i prefer angular implementation.
  - But Now I have Enrolled Course For Creating Advanced Social Network With Asp.net Core & react, So may react rating level and tags will changes with the next update of this resume
- As any web developer i am working with Html & Css and Preprocessors like SCSS and with libraries like JQuery, d3.js and frameworks like bootstrap, but not a suitable person to build tools like this or design front end full responsive web page frome ground without any framework(pure(html,css,js)) most of my work was done by using already configured frameworks eg, BS. and convert that into reusable components with things like angular, react, server side templates eg, (razor pages) or even genral template engines eg, (Blade in laravel) or (Pug,ejs) its just a template with linear learning curve, so can learned very fast, this also for material design implementations, i prefere using google libraries to do that.



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Creativity is inventing, experimenting, growing, taking risks, breaking rules, making mistakes, and having fun