

# MUHAMMAD AL GHALI

Software Engineer

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## About

Software Engineer with experience working in fast-paced environments, seeking a software developer position to gain software & managerial experience. Proficient in **C#, Javascript, React.js**, and acquainted with **Typescript** -- with knowledge of **software security, software testing** and **design patterns**. Excellent **communication skills** able to introduce technical information to both **technical** and **non-technical** audiences.

## Skills

OOP  
Backend  
SQL  
NoSQL  
JavaScript  
TypeScript  
C#  
Artificial Intelligence  
Machine Learning  
SQL  
NoSQL  
C#  
Cryptography  
Encryption  
Decryption  
Git

## Notable Training

[Building Web Apps  
with React.js and  
Firebase](#)

## Education

**Masters in Software Engineering** / University Of Michigan-Dearborn / Sep 2021 - Apr 2023

- Design Patterns
- Software Quality Assurance
- Machine Learning
- Artificial Intelligence
- Embedded Systems
- Mobile and Wireless Communications
- Advanced Software Security

**Bachelor of Science in Computer Science** / American University Of Beirut / Sep 2018 - Apr 2021

- Data Structures & Algorithms
- Databases - SQL & NoSQL
- Object Oriented Programming (OOP)
- Mobile Development - Android/iOS
- Computer Architecture
- Software Security

## Personal and Group Projects

**Grid Optimal Path Learner** / C#

- An E-Greedy machine learning algorithm, that learns the optimal path of an NxN grid with a time complexity less than  $O(n)$  with optimal solutions

**Passwords' Vault** / Encryption & Decryption (aes256, pbkdf2)

- A password vault that encrypts all websites passwords with various encryption algorithms such as aes256, pbkdf2
- A vault that can also encrypt and secure credit and personal Id card information

**Task Manager** / Javascript

- A Task Manager for a small scale company

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## Work

### **Frontend Web Developer – United Industries Group (U.I.G) / Nov 2020 - Feb 2021**

- Build and deploy the UX of 5 using React.js
- Handle and verify I/O across all of our platforms
- Improve the UX and increase user retention