

# OMAR RAYYAN

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## EDUCATION

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### New York University Abu Dhabi

*B.S in Computer Science and Mechanical Engineering*

August 2021 - Present

*Abu Dhabi, UAE - GPA: 3.99*

### IEC School

*7A\* IGCSEs and 4A\* A-Levels*

August 2019 - June 2021

*Amman, Jordan - GPA: 4.0*

- Top in Country Physics A-Level - Queen Rania Outstanding UK Learner Awards
- Top in Region Across 7 IGCSEs - Cambridge Assessment International Education
- Top in Region Business IGCSE - Cambridge Assessment International Education

## WORK EXPERIENCE

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### ProgressSoft Corporation

*Software Engineering Intern*

July 2022 - August 2022

*Amman, Jordan*

- Involvement in programming, documenting and testing applications, frameworks, and software components of Progresssoft ECC (Electronic Cheque Clearing) project
- Worked with multiple Java EE technologies including JSP and Servlets and used MVC design patterns
- Used various web application tools and frameworks including Maven
- Worked on front-end technologies including Javascript and CSS

### New York University Abu Dhabi

*Engineering Research Assistant at AIM Lab*

February 2022 - Present

*Abu Dhabi, UAE*

- Working on the development of KATIB: a handwriting assisting platform that provides contactless kinesthetic feedback by utilizing magnetic forces. KATIB aims to help post-stroke patients regain writing skills.

### LEBSI

*Founder/Developer*

September 2021 - Present

*App Store - Jordan*

- LEBSI is a platform that allows people and clothing brands to set up online stores and list their clothing pieces in minutes. It prevents sellers from having to manage their stores on multiple social media platforms at the same time. LEBSI aims to help physical stores compete with online brands by providing an online marketplace for them to list their items on.
- LEBSI reached 22 on the App Store Top Charts in late November and is currently attracting sellers from various regions around Jordan.
- Developed using Swift Language and uses Firebase Firestore Database to manage storage
- LEBSI launched in Jordan in November 2021 and expanded to the UAE in April 2022
- One of the 6 projects selected to join startAD InnoVention Program 2022

### ProgressSoft Corporation

*Software Engineering Intern*

June 2021 - August 2021

*Amman, Jordan*

- Involvement in programming, documenting and testing applications, frameworks, and software components of Progresssoft ECC (Electronic Cheque Clearing) project
- Worked with multiple Java EE technologies including JSP and Servlets and used MVC design patterns
- Used various web application tools and frameworks including Maven as well as front-end technologies such as Javascript and CSS

Developing and designing iOS apps. Worked on several projects including [Qatra](#), a platform that connects those who are in need of blood units in Jordan with potential blood donors. Worked on [Past Code](#), an app that helps international students find supporting papers using their camera. Used Apple's Vision framework to extract specific patterns from pictures. Reached 14 on the official education App Store Top Charts and was used over 200,000 times in the first 3 months. Also worked on [QuizMy](#) which allows users to make quizzes and compete with their friends.

## PROJECTS

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### **KATIB**

*Developer*

June 2022

*[Github Repo](#)*

A handwriting assisting platform that provides contactless kinesthetic feedback by utilizing magnetic forces. KATIB aims to help post-stroke patients regain writing skills

### **DelphiMed**

*Developer*

April 2022

*[Github Repo](#)*

This project was created at the 2022 NYUAD Hackathon for Social Good in the Arab World: Focusing on Quantum Computing (QC). DelphiMed helps in assigning patients to hospitals by optimizing a range of parameters using the D-Wave Quantum Annealing algorithms.

### **Fine Day**

*Developer*

September 2021

*[Github Repo](#)*

"A Fine Day" is a gamified version of stroke rehabilitation that allows patients to regain their limbs functionality in an engaging environment and therapists to remotely track patient progress. We focused our efforts on developing games that target patients' range-of-motion and motor skills. That was achieved by integrating VR (Oculus Rift) and hand-tracking (Ultraleap) to replicate motor skill and range-of-motion exercises in more engaging way while keeping track of the motion data for the therapist to analyze.

### **Seek NYUAD**

*Developer*

November 2021

*[iOS App](#)*

Seek NYUAD is a platform where NYUAD students can both Help and Seek Help. Prioritizing mental health while performing well academically can be challenging for students, this app can help students achieve that. It aims to tackle both the Academic and Health stress of students at universities campuses, especially in the times where in-person classes are limited.

### **LEBSI**

*Developer*

February 2021

*[iOS App](#)*

LEBSI is a platform that allows people and clothing brands to set up online stores and list their clothing pieces in minutes. It prevents sellers from having to manage their stores on multiple social media platforms at the same time. It aims to help physical stores compete with online brands by providing an online marketplace for them to list their items on. LEBSI was able to maintain the 20th place on App Store Top Charts for several weeks starting late November and is currently attracting sellers from various regions around Jordan. LEBSI was developed using Swift Language and uses Firebase's Firestore Database to manage storage. LEBSI launched in Jordan in November 2021 and expanded to the UAE in April 2022. In 2022, LEBSI was selected as one of the 6 projects to join startAD InnoVention Program.

### **Qatra**

*Developer*

May 2021

*[iOS App](#)*

Qatra is a platform that connects those who are in need of blood units in Jordan with potential blood donors. It's an app that I published on the App Store in May of 2021 and it allows user to join in by inputting their blood type and place of residence. Registered users would then start getting notifications once any local or surrounding hospital request blood units similar to their blood type. Qatra was featured on [Jordan News](#) in mid-may. The app peaked at 21 on the App Store Health charts.

### **Past Code**

February 2021

*Developer*

[App Store](#)

Past Code is an app that helps international students find supporting papers using their camera. Used Apple's Vision framework to extract specific patterns from pictures. Over 200,000 paper scans were done in the first 3 months and the app reached number 14 on the official education App Store Top Charts. Past Code was featured in an article on [Help IGCSE](#)

## **COURSEWORK**

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### **Undergraduate - Mechanical Engineering and CS**

New York University Abu Dhabi

*Mathematics:* Multivariable Calculus with Applications to Science and Engineering - Linear Algebra - Ordinary Differential Equations *Computer Science:* Data Structure - Discrete Mathematics *Engineering:* Computer Programming for Engineers - Design and Innovation - Digital Logic - Circuits Fundamentals - Conservation Laws in Engineering - Engineering Statics *Science:* Foundations of Science 1: Energy and Matter - Foundations of Science 2: Forces and Interactions *Other:* Bioinspiration - FYWS: The World of Babel - Numbers, Models, and Chaos - Life in the Universe

## **SKILLS**

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**Python/JavaScript/C++/Java/Swift/JSP/Servlet/Angular/AutoCad/MATLAB/HTML/CSS**