OMAR RAYYAN

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EDUCATION

New York University Abu Dhabi   August 2021 - Present
B.S in Electrical Engineering and Computer Science   *Abu Dhabi, UAE - GPA: 3.99*

IEC School   August 2019 - June 2021
7A* IGCSEs and 4A* A-Levels   *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 Awards
· Top in Region Business IGCSE - Cambridge Assessment International Education Awards

WORK EXPERIENCE

Robotics and Intelligent Systems Control Laboratory   September 2022 - Present
Engineering Research Assistant   *Abu Dhabi, UAE*

ProgressSoft Corporation   July 2022 - September 2022
Summer Engineering Intern   *Amman, Jordan*

· Worked on and fully developed a tool to be used for internal testing by banks all around the Middle East using Spring Java Framework
· Involvement in programming, documenting and testing applications, frameworks, and software components of Progressoft 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

New York University Abu Dhabi   February 2022 - Present
Engineering Research Assistant at AIM Lab   *Abu Dhabi, UAE*

· Working on the development of KATIB: A handwriting assisting platform that provides contact-less kinesthetic feedback by utilizing magnetic forces. KATIB aims to help post-stroke patients regain writing skills through its easy-to-use software. It enables patients to perform physical tasks while receiving real-time feedback from their therapists.
· Creating and developing a set of serious tasks that can be performed on the KATIB hardware.

LEBSI   September 2021 - Present
Founder/Developer   *App Store - Jordan*

· LEBSI enables people and clothing brands to set up online stores in minutes. Hence, sellers no longer have to manage their stores across multiple social media platforms at the same time. It provides physical stores with virtual marketplaces and allows them to expose themselves to potential customers, enabling them to compete with online brands.
· Reached #22 on the App Store Top Charts and is currently attracting sellers from various regions around Jordan and the UAE.
· 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.
· Finalist at the 2022 startAD NYUAD InnoVention Program

ProgressSoft Corporation   June 2021 - August 2021
Software Engineering Intern   *Amman, Jordan*

- Involvement in programming, documenting and testing applications, frameworks, and software components of Progressoft 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

appsByOmar   January 2021 - Present
Founder/Developer   *App Store Developer Page*

- Worked on several projects including: Qatra: A platform that connects those who are in need of blood units in Jordan with potential blood donors. It allows users to register by inputting their blood type and place of residence. Once users register, they will receive notifications when local and nearby hospitals request blood units similar to theirs. Also worked on Past Code: An app that helps international students find supporting exam papers using their phone camera. Specific patterns are extracted from images to match their document with supporting papers. As of January 2022, over 200,000 papers from 64 different countries were scanned on Past Code.

PROJECTS

KATIB   Feb 2022
Developer   *Github Repo*

A handwriting assisting platform that provides contact-less kinesthetic feedback by utilizing magnetic forces. KATIB aims to help post-stroke patients regain writing skills through its easy-to-use software. It enables patients to perform physical tasks while receiving real-time feedback from their therapists.

LEBSI   November 2021
Developer   *iOS App*

LEBSI enables people and clothing brands to set up online stores in minutes. Hence, sellers no longer have to manage their stores across multiple social media platforms at the same time. It provides physical stores with virtual marketplaces and allows them to expose themselves to potential customers, enabling them to compete with online brands.

Fine Day   January 2021
Developer   *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.

DelphiMed   April 2022
Developer   *Github Repo*

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

Qatra   August 2021
Developer   *iOS App*

Qatra is a platform that connects those who are in need of blood units in Jordan with potential blood donors. It allows users to register by inputting their blood type and place of residence. Once users

register, they will receive notifications when local and nearby hospitals request blood units similar to theirs.

Past Code
Developer

February 2021

[App Store]

Past Code is an app that helps international students find supporting exam papers using their phone camera. Specific patterns are extracted from images to match their document with supporting papers. As of January 2022, over 200,000 papers from 64 different countries were scanned on Past Code.

Seek NYUAD
Developer

November 2021

[iOS App]

SEEK NYUAD is a platform where NYUAD students can both Help and Seek help. It was created at the HACKNYUAD 2021 hackathon.

AWARDS

Undergraduate Scholarship
June 2021-June 2025

New York University Abu Dhabi

$ 250,000 scholarship for four years to complete my undergraduate studies at New York University Abu Dhabi

Queen Rania Outstanding UK Learners Award
June 2020

Pearson Edexcel Board - Jordan

· Top in Country in Physics International A-Level
· Top in Country Across 4 International A-Levels

Cambridge Assessment International Education
June 2020

Eastern Province - Saudi Arabia

· Top in Region Across 7 International GCSEs
· Top in Region Business International GCSE

COURSEWORK

Undergraduate - Electrical 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

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