

Omar Rayyan

olr7742@nyu.edu | [in](#) LinkedIn | [GitHub](#) | [Portfolio](#)

Education

New York University

B.S in Electrical Engineering and Computer Science

August 2021 - Present

GPA: 4.0/4.0

Experience

Google

STEP Engineering Intern

July 2023 - Present

Munich, Germany

- Working on a functionality in an internal tool that enables the evaluation of changes in resource configuration controls before their submission.
- Working as part of the infrastructure and storage team which is responsible for managing resources and tasks across Google's global distributed systems.

Center for AI and Robotics

Robotics Engineering Research Assistant

Sept 2022 - July 2023

Abu Dhabi, UAE

- Developing a ROS Algorithm for Precise Control of the KUKA iiwa-14 R820 Robot with Differential Kinematics and Remote Center of Motion (RCM) Constraint Adherence in Minimally Invasive Surgery.
- Integrating robotic tools with trajectory planning algorithms to mimic invasive surgery movements.

ProgressSoft Corporation

Software Engineering Intern

July - Sept 2021 & July - Sept 2022

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
- Was involved in programming, documenting and testing applications, frameworks, and software components of Progresssoft ECC (Electronic Cheque Clearing) project using multiple Java EE technologies.

Applied Interactive Multimedia Lab

Engineering Research Assistant at AIM Lab

February 2022 - July 2022

Abu Dhabi, UAE

- Working on the development of KATIB, a handwriting assisting platform that provides contact-less kinesthetic feedback by utilizing magnetic forces. It helps post-stroke patients regain writing skills.

Projects

[View More](#)

Lebsi

[iOS App](#)

An app that enables people to set up online clothing stores. Reached #21 on App Store Top Charts.

A Fine Day

[Github Repo](#)

A gamified version of stroke rehabilitation allowing patients to regain their limbs functionality in an engaging environment by integrating VR (Oculus Rift) and hand-tracking (Ultraleap) devices.

Qatra

[iOS App](#)

A platform connecting those in urgent need of blood units in Jordan with potential blood donors. Was featured on [Jordan News](#).

Past Code

[App Store](#)

An app that helps international students find supporting exam papers using their phone camera using Apple's vision framework. The app was used to scan over 500,000 papers from 64 different countries.

Awards

IEEEExtreme Coding Competition

October 2022

- 4th on the United Arab Emirates - Problem Solving

Cambridge Assessment International Education

June 2020

- Top in Country in Physics International A-Level and Across 4 International A-Levels
- Top in Region Across 7 International GCSEs

Skills

Coding Languages

C++ | Python | JavaScript | Go | Java | Swift | JSP | Servlet | Angular | Spring | MATLAB | React