**Mahmood Alsaghiri**

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## EDUCATION

**Rutgers University - New Brunswick**                                                                    New Brunswick, New Jersey
Computer Science                                                                                                                    Expected May 2028
Relevant Coursework: Intro to Computer Science, Intro to Information Technology and Informatics,
Data Structures, Calculus 2, Introduction to Linear Algebra, Discrete Structures I

## CERTIFICATIONS

**Supervised Machine Learning: Regression and Classification** – DeepLearning.AI / Stanford Online (Coursera)

## PROJECTS

**Sleep Score** (ML Web Application)
React, JavaScript, HTML, CSS, NumPy, Python
- Built a machine learning powered web app to predict sleep quality based on factors such as sleep duration, stress level, and others
- Engineered and trained a custom regression model using Python and NumPy on 400+ real-world examples to achieve accurate predictions and a mean absolute error of ~0.32
- Designed an intuitive frontend using the React library, enabling users to input data and receive instant sleep quality predictions

**Portfolio** (Personal website)
Figma, React, JavaScript, HTML, CSS
- Designed and developed a responsive portfolio website to showcase projects and skills
- Implemented animations and micro-interactions to enhance the navigation flow of the website
- Created prototypes in Figma before development to ensure a sleek and modern interface

**Quantum Leap** (Video game)
GDScript, Godot
- Developed a complete game using the Godot game engine and published it on the itch.io website
- Wrote code in GDScript (Godot's proprietary programming language) to implement player movement, randomized terrain generation, and a variety of other game mechanics

## WORK EXPERIENCE

**Volunteer Tutor**
Learn to Be   (July - September, 2023)
- Provided personalized academic support to students in subjects such as Geometry and Algebra, resulting in noticeable improvement in the students' understanding of the material
- Planned and scheduled lessons tailored to each student's learning style and academic goals

## ADDITIONAL

**Technical Skills**: Java, Python, NumPy, TensorFlow, HTML, CSS,  React, JavaScript
**Languages:** English, Arabic (fluent)