

Mahmood Alsaghi

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EDUCATION

Rutgers University - New Brunswick

Computer Science

New Brunswick, New Jersey

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)

[Advanced Learning Algorithms](#) – 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)