

Mahmood Alsaghiri

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EDUCATION

Rutgers University - New Brunswick

Computer Science

New Brunswick, New Jersey

Expected May 2028

Relevant Coursework: Intro to CS, Intro to ITI, Data Structures, Calc 2, Introduction to Linear Algebra, Discrete Structures I

CERTIFICATIONS

[Machine Learning Specialization](#) – DeepLearning.AI / Stanford Online (Coursera)

PROJECTS

[AI-Powered DSA Mock-Interview Platform](#)

Figma, React, JavaScript, [Express.js](#), Python, HTML, CSS, MongoDB

- Architected a full-stack MERN platform for interactive DSA practice.
- Implemented a unique Gemini-powered AI interviewer to conduct mock technical interviews and provide real-time conversational feedback.
- Programmed grading scripts using Python, which are then run via the Piston API, allowing users to securely submit their code, which is then graded against different test cases.
- Designed a secure authentication system using JWTs and Google OAuth, and utilized a MongoDB database to store user profiles.

[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 and implemented the resulting predictive model on the client-side, allowing users to 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

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, JavaScript, [React.js](#), [Express.js](#), HTML/CSS, NumPy

Languages: English, Arabic (fluent)