

MOHAMAD EL NAYAL

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EDUCATION

Northeastern University, Khoury College of Computer Sciences

Boston, MA

Candidate for a Bachelor of Science, degree in Computer Science, May 2024

September 2020 - Present

Activities: AI Skunkworks Club, Oasis Project Workshop

Relevant Coursework: Discrete Structures, Object Oriented Design, Algorithms, Fundamentals of Digital Design and Computer Organization, Database Design, Theory of Computation

Activities: iWARP Club (Internet of Things, Wearables, Arduino, Robotics, Raspberry Pi)

Leadership: Vice President of Internal Affairs (SGA)

TECHNICAL SKILLS

Programming Languages: Python, C#, C++, Java, Racket, SQL, JavaScript, TypeScript, HTML and CSS

Libraries/Frameworks: TensorFlow, Flask, Pandas, Angular, React, Bootstrap, OpenCV, Rest API

Software: IntelliJ, Eclipse, PyCharm, Jupyter Notebooks, MySQL, MongoDB

PROJECTS

Connect 4 Companion, HackBeanpot

February 2023

- Segmented images of Connect 4 Boards into 2-D arrays ready for manipulation using OpenCV
- Implemented a mini-max algorithm to find the next best move for the robot to make
- Created an Arduino-controlled robot to physically enact the decisions made by the algorithm

Rizzer, HackHarvard

October 2022

- Developed a Google Chrome extension that scrapes a user's Tinder profile and gives several conversation options
- Utilized the GPT-3 API along with JavaScript, HTML, and CSS for Frontend

Safewalk, HackDartmouth (1st Place)

April 2021

- Developed a web application using historical Boston crime statistics to provide routes to a destination, each labeled with safety insights about their respective paths
- Used Flask and Google Directions API for functionality and HTML, CSS, and Bootstrap for front-end design

WORK EXPERIENCE

The Travelers Companies

Hartford, CT

Technology Development Leadership Program Co-Op Intern

January-June 2022

- Developed a web-application that takes in large CSV files and outputs a thorough analysis of that data
- Used Angular, C#, and MongoDB to create software for internal use
- Implemented Extreme Programming practices like Pair Programming, TDD, and Mob Programming

Genuity LLC

Sudbury, MA

AI Intern

January-September 2020

- Worked with a highly experienced team to contribute to the advancement of the next generation diagnostic tools for Medical Imaging
- Annotated data to create helpful training data in order to improve the accuracy of the Medical Imaging software
- Ran experiments to test the results of the neural network training that used the aforementioned training data

INTERESTS

- Reading, Philosophy, Politics, Volunteering, Tawlah