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| WEBSITE: WALID-Z-KHAN.ME

WALID KHAN

EDUCATION

Stony Brook University

Major: Computer Science *(Relevant Completed Courses: Data Structures, Multivariable Calculus, Linear Algebra)*
Expected Graduation: June 2023
GPA: 3.86

WORK EXPERIENCE

STI: Saif Tutorial Institute

- *Full-Time summer Instructor for SAT I, and II*
  - *Taught Full time SAT and SAT II, gaining vast knowledge in efficient Mathematical Models and algorithms. Helped build fundamental logic by teaching under pressure.*

July 2015-June 2018

PROJECTS

- *My Website: walid-z-khan.me*
- https://github.com/walid101/walid-khan.me
- **Built a neatly formatted website, with smooth animation between sections using various libraries and tools.** This is my personal website with project examples and demos.
  JavaScript, HTML, CSS, Visual Studio
- *OpenCV to Robot Arm*
- https://devpost.com/walid101?ref_content=user-portfolio&ref_feature=portfolio&ref_medium=global-nav
- **Built a custom hand detection algorithm with the OpenCV library** using a cloud source library (MQTT) to communicate with the Arduino.
  Java, Python
- *Android and Desktop Game*
- https://github.com/walid101/InfinityGame
  Built an android game mimicking a traditional Indie game using the LibGDX game engine and Android Studio as a summer project, fully made with appropriate backends.
  Java, Android Studio
- *Hackathon Game (HackNY) : Contributor*
- https://github.com/FrezCold/District1128
- Built with the LibGDX engine for the HackNY Hackathon aimed at solving the huge trash issue in the United States.
  Java, Android Studio
- *MakeHarvard Hackathon (2020): Lead Programmer*
- https://devpost.com/software/r-cubed-6twh1n
- https://github.com/walid101/TensorFlow-Arduino-App
- Built a comprehensive image recognition and Bluetooth transmission app for the Arduino using Android Studio. **The program is efficient enough to run on just the processing power of a phone.**
- Java, C#, Arduino, TensorFlow

ACHIEVEMENTS

Programming Captain for team 12178 (FTC)

- *Main Programmer for High School Robotics Team*
  - ***Used applied physics to create the first-ever Holonomic Drive on a four-wheel vehicle. Won 6th** in the state during the 2018-2019 season at Townsend Harris Highschool.*
  - ***Recipient of the Innovation Award Twice in both Townsend Harris and Francis Lewis competitions***

Sept 2018 - March 2019

Lead Programmer in HackNY Hackathon (2019)

- *Main Programmer for High School Hackathon Team*
  - *Created a game to change the mindset of the American people. The task at hand was to solve the major garbage issue, determining that if a game can reach out to multiple people, the efficiency of a 100 people motivated to shift their paradigms slightly is far better than building one robot.* ***(Won Most Advanced Project Award)***

Dec 2018 - July 2019

Won 4th place in Circuits, Division C of Science Olympiad (2019)

- *Team A member in division C of Science Olympiad*
  Won circuits division in States Competition
  4th Place in States Competition (2019)
  Won 11th Place in Thermodynamics (2018)

Dec 2018 - Feb 2019

TECHNICAL SKILL SET

Front End Technologies
- *HTML (Competent)*
- *CSS (Competent)*
- *JavaScript (Competent)*

Back End Technologies
- *Java (Advanced)*
- *Python (Advanced)*

Hardware Technologies

Technologies
- *Arduino (Advanced)*
- *Raspberry Pi (Competent)*

App Development
- *Android Studio (Advanced)*

Machine Learning
TensorFlow(Competent)

Image Recognition
OpenCV (Advanced)
TensorFlow (Advanced)

DataBase
Google Firebase(Adept)

Game Development
LibGDX Engine(Advanced)
Unity(Adept)