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WALID KHAN

EDUCATION

Stony Brook University

Major: Computer Science : *Relevant Completed Courses: Data Structures, Multivariable Calculus, Linear Algebra, Discrete Maths , Programming Paradigms and Abstractions, Object-Oriented, Computer Architecture, Computational Theory*
Expected Graduation: *June 2023*
GPA: 3.61

WORK EXPERIENCE

STI: Saif Tutorial Institute

❖ Stony Brook University Computer Science T.A
- *Taught Students in CSE 101 paradigms in Data Structures, Libraries, Coding Style, Critical thinking, and Algorithms. Taught weekly labs, and held office hours.*
  July 2015-June 2018

❖ Full-Time summer Instructor for SAT I, II & A.P CS
- *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 the website from scratch with the MERN Stack. User submissions saved to an Atlas cluster.** This is my personal website with project examples and demos.
  MERN, JavaScript, HTML, CSS, Visual Studio

❖ OpenCV to Robot Arm
❖ **Built a custom hand detection algorithm with the OpenCV library** using a cloud source library (MQTT) to communicate with the Arduino.
  Java, Python

❖ Dynamic Website - Capital One - Summiteer
❖ https://github.com/walid101/ESTNews_Main
  Built with Django and Pycharm this project was a challenge issued by Capital One for their prestigious software engineering summit. We were tasked with making a news website that continuously updates the most recent headlines with the NewsAPI.
  Django, Pycharm, Bootstrap, Python, NewsAPI

❖ MakeHarvard Hackathon (2020): Lead Programmer
❖ 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

Capital One Summiteer - SES 2021

❖ *Attended Capital One's Renown CS Summit*
- *Accepted into Capital One's selective program, tasked with creating a webApp implementing the NewsAPI with full Mongo Database support. Among 686 applicants only 63 were granted attendance in the summit*
- *WebApp Link:* www.est-news.com
- *GitHub Repo:* https://github.com/walid101/ESTNews_Main
  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	Machine Learning
❖ *HTML (Competent)*	*TensorFlow(Competent)*
❖ *CSS (Competent)*	*PaaS/IaaS Deployment*
❖ *JavaScript (Advanced)*	*Reinforcement Learn. (Skilled)*

Back End Technologies	Image Recognition
❖ *Java (Advanced)*	*OpenCV (Advanced)*
❖ *Python (Advanced)*	*TensorFlow (Advanced)*
❖ *C++ (Advanced)*	
❖ *Haskell (Advanced)*	

Hardware Technologies	DataBase Technologies
❖ *Arduino (Advanced)*	*Google Firebase (Adept)*
❖ *Raspberry Pi (Competent)*	*Atlas/MongoDB (Advanced)*
	Django (Web Dev + Backend)

App Development	Game Development
❖ *Android Studio (Advanced)*	*LibGDX Engine(Advanced)*
❖ *Visual Studio Code(Advanced)*	*Unity(Adept)*