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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

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 (Advanced)**

Back End Technologies

- ❖ **Java (Advanced)**
- ❖ **Python (Advanced)**
- ❖ **C++ (Advanced)**
- ❖ **Haskell (Advanced)**

Hardware Technologies

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

App Development

- ❖ **Android Studio (Advanced)**
- ❖ **Visual Studio Code(Advanced)**

Machine Learning

- TensorFlow(Competent)**
- PaaS/IaaS Deployment**

Image Recognition

- OpenCV (Advanced)**
- TensorFlow (Advanced)**

DataBase Technologies

- Google Firebase (Adept)**
- Atlas/MongoDB (Advanced)**
- Django (Web Dev + Backend)**

Game Development

- LibGDX Engine(Advanced)**
- Unity(Adept)**