

SUMMARY

Highly motivated individual with experience in K-12 SAT I, II, and SHSAT tutoring. Skilled in Computer Science, Game Development, Image Recognition, and App Development, further skills include adeptness in electrical and mechanical hardware components. Extremely quick learner and efficient problem solver, capable of meeting multiple deadlines and work efficiently under strict time constraints.

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

- ❖ **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
- ❖ **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
- ❖ **MakeHarvard Hackathon (2020): Lead Programmer**
 - ❖ <https://devpost.com/software/r-cubed-6twh1n>
- ❖ **Built a comprehensive image recognition and Bluetooth transmission app for the Arduino. The program is efficient enough to run on just the processing power of a phone.**
Java, C#

ACHIEVEMENTS

Programming Lead 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

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

App Development

- ❖ **Android Studio (Advanced)**

Machine Learning

- TensorFlow(Competent)**

Image Recognition

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