

# Samuel Piltch

Programmer and Researcher

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<http://samuelpiltch.com>

Outgoing and passionate high school student with interests in *computer science, mobile and web software development, and artificial intelligence*. Created a range of mobile applications and protocols, as well as built robot deployment code. **Areas of knowledge include:**

- ❑ Cross-platform mobile app development
- ❑ Database management
- ❑ Mobile and server async communication
- ❑ Data analysis and visualization
- ❑ UX interactions and animations
- ❑ Front-end graphic design
- ❑ Autodesk Inventor
- ❑ Python, JavaScript, HTML, CSS, Java
- ❑ Fluency in Czech and French. Proficiency in Spanish.

## EXPERIENCES

### Brooklyn Technical High School Robotics FIRST Team (FRC 334) – Programmer

January 2017 - Present

- Participated in the brainstorming process and prototyped concepts for the robot.
- Worked on database and data transfer protocol for mobile scouting app, used by all team members at the competition.
- Learned and implemented the Java WPI Library, used to program robots for competition.

### Brooklyn Technical High School Weston Research Scholars Program

July 2017 - Present

- Currently working on research that looks at the relationship of varying social factors and crime rates on pedestrian and neighborhood safety in Brooklyn through machine learning.

## EDUCATION

### Brooklyn Technical High School – Student (Class of 2020 - 4.0 GPA)

September 2017 - Present

- Received Autodesk Inventor User certification while taking the Design, Drafting, and Production PLTW college course.  
The class focused on design principles, drafting, and product analysis.
- Enrolled in AP World History and AP Computer Science Principles.

## VOLUNTEERING

### Citizen Schools – Student Volunteer

October 2017 – December 2017

- Mentored middle school students in low-income communities in designing, building, and programming robots through the Lego Mindstorm platform alongside Google employees.
- Students gained 21st-century skills such as coding, problem-solving, and communication and gained an insight into a future career in technology.

## AWARDS AND RECOGNITIONS

- Won “Best Mobile App” award at StuyHacks 2017 24 hour hackathon for *Walk To* subway app project.
- Placed 2<sup>nd</sup> in the national Simons Foundation Powering Autism Research for Knowledge (SPARK) Mobile App contest (in partnership with PACE University) with the *Friend Connect* prototype: a social media application for those with autism guided by the principle of full parental control.
- National Honor Society member, part of the Academic Recognition committee.
- National Society of High School Scholars member.
- Scored in the 97<sup>th</sup> Percentile on the 2017 Preliminary SAT (PSAT.)
- Made honor roll all two semesters at Brooklyn Technical High School.