

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 2nd 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 97th Percentile on the 2017 Preliminary SAT (PSAT.)
- Made honor roll all two semesters at Brooklyn Technical High School.