#### Michael Truell

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#### Education

Horace Mann School, Class of 2018

**GPA**: 4.0

Relevant coursework: Honors Physics (A), Honors Algebra II and Trigonometry (A), Honors Geometry (A),

Computer Science (A), Science Research (A), Chemistry (A), Biology (A)

Standardized Tests: 800 on Molecular Biology SAT II (2015), 800 on Chemistry SAT II (2015), 99

percentile on SSAT (2013)

#### **Honors and Awards**

**International Science and Engineering Fair**: Second Place in Robotics and Intelligent Machines, CERN Award, and NASA Second Award

**New York City Science and Engineering Fair**: Intel Excellence in Computer Science Award, First Award, and Intel Finalist

American Computer Science League 2016 All-Star Team

First Robotics Competition 2016 Highest Ranked Rookie Team

## Skills

Programming Languages: C, C++, Java, Javascript, PHP, Python

Machine Learning: Genetic Algorithms, Neural Networks, Reinforcement Learning, SVM

Databases: MongoDB, MySQL

Noteworthy Tools: AngularJS, Docker, Flask, Ionic, JQuery, OpenGL, SocketIO, SFML

Embedded Systems: Raspberry Pi, Arduino, NI RIO, ESP8266

#### **Projects**

## A Universal Robotic Control System using Reinforcement Learning with Limited Feedback

Robotic software that learns from people. Won awards at NYCSEF and ISEF.

### Fido

An open-source C++ machine learning library for embedded electronics and robotics.

## **New York Computer Science League**

Monthly algorithmic programming competitions for high school students.

#### Halite

A multiplayer, turn-based programming competition.

## **Extracurriculars**

Leader and Founder of American Computer Science League Team

Leader and Founder of Programming Club

**Head of Software** for Varsity Robotics Team

**Webmaster** for Student Government

**CTO** for the School Newspaper

Varsity Runner Horace Mann Track

Varsity Runner Horace Mann Cross Country

Pianist since age of 8