

# Michael Truell

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## EDUCATION

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Horace Mann School, Bronx, NY Class of 2018  
· 4.0 Unscaled GPA

## EXPERIENCE

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*Research Intern*, MIT Probabilistic Computing Group June 2017 - August 2017  
· Worked on extending the inference abilities of the BayesDB platform  
· Member of the RSI program, Departement of Defense Scholar

*Software Engineering Intern*, Two Sigma Investments June 2016 - March 2017  
· Developed software systems to improve Two Sigma's public profile and target hires  
· First high school intern hired by Two Sigma

Independent Reinforcement Learning Researcher June 2015 - May 2016  
· Designed a robot control system that learns from humans in minutes  
· Required 4x less data than Q-learning based implementations

## PUBLICATIONS

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**Truell, M.**, Saad, F., Mansinghka, V. (2017). *Integrating a Fast, Non-parametric Bayesian Inference Engine into BayesDB*. Submitted to the Siemens Competition.

**Truell, M.**, Gruenstein, J. (2016). *A Universal Robot Control System Using Reinforcement Learning with Limited Feedback*. Poster presented at ISEF 2016, Phoenix, Arizona.

## OPEN SOURCE

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Halite Programming Competition *halite.io* 60+ Contributors  
· Online programming competition sponsored by Two Sigma and Cornell Tech  
· Project saw 1,500+ users who submitted 15,000+ bots and wrote 1400+ forum posts

Fido Library 300+ Github Stars  
· A neural network and machine learning library for embedded electronics

## ACTIVITIES & LEADERSHIP

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Horace Mann FRC Robotics, *Head of Programming and Electronics* 2015 - 2017  
Horace Mann American Computer Science League, *Team Captain* 2015 - 2017  
Horace Mann Programming Club, *Head* 2015 - 2017

## AWARDS & HONORS

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Intel ISEF Grand Award: Second Award in Robotics and Intelligent Machines  
Intel ISEF Special Award: Second Award, National Aeronautics and Space Administration (NASA)  
Intel ISEF Special Award: First Award, CERN (award included a week at the CERN campus)  
New York City Science and Engineering Fair (NYCSEF): First Prize in Computer Science  
Intel Excellence in Computer Science Award  
American Computer Science League Perfect Programming Score at Nationals

## SKILLS

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<b>Software</b>	Python, Java, C++, PHP, JS, HTML, Angular, LAMP, Flask, Docker
<b>Hardware</b>	OpenSCAD, AVR, ESP8266, NI
<b>Machine Learning</b>	Reinforcement Learning, Evolutionary Algorithms, Bayesian Nonparametrics