Michael Truell

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EDUCATION

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

EXPERIENCE

Research Intern, MIT Probabilistic Computing Group — June 2017 - August 2017
· Worked on extending the inference abilites of the BayesDB platform
· Member of the RSI progam, 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 (see Halite)
· 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

OPEN SOURCE

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

AWARDS & HONORS

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

ACTIVITIES & LEADERSHIP

Horace Mann FRC Robotics, *Head of Programming and Electronics* — 2015 - 2017
Horace Mann American Computer Science League, *Co-captain* — 2015 - 2017
Horace Mann Programming Club, *Co-captain* — 2015 - 2017

PUBLICATIONS

Truell, M., Spector, B. (2017). *The Design and Implementation of Modern Online Programming Competitions* Submitted to the Foundations of Digital Games Conference 2018.

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

SKILLS

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