Justin Yu

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EDUCATION

Massachusetts Institute of Technology — Sept 2018 – June 2022

- **Intended Major/Minor:** Computer Science/Linguistics
- **Relevant Courses:** Machine Learning, Introduction to Linguistics

Winchester High School — Sept 2014 - June 2018

- **GPA:** 4.21 out of 4.00 (weighted) | **SAT:** 1580
- **Clubs and Organizations:**
  - **Captain of Robotics Team** — **July 2016 – June 2018**
    - Built and programmed fully autonomous robots in C to perform various tasks (i.e. object detection, color sorting, terrain navigation, line and wall following)
    - Utilized sensor data from stereo cameras, gyroscopes, reflectance sensors
  - **Founder and President of Science Olympiad Team** — **Sept 2015 – June 2018**
- **Coursework:** Independent CS Research Project (Abstractive Summarization: Current Methods and Drawbacks)

EXPERIENCE

UROP Researcher at MIT CSAIL (InfoLab) — Sept 2018 - Present

- Implementing sequence models and other ML tools to generate linguistic annotations in order to inform and improve output for question-answering system; used Amazon Turk to collect custom training dataset.
- Applying question-answering technology to MOOC content by building a web-based tool for annotating videos

Summer Software Engineering Intern at Accion Systems — July 2017 - Aug 2017

- Interned for Accion Systems, a micro-satellite propulsion technology startup, created interface for reprogramming satellite thruster chips live in space by sending commands to bootloader over UART protocol
- Improved data processing GUI for analyzing thruster test data using tkinter and Python scientific libraries

Researcher at MIT PRIMES — Feb 2017 – June 2017

- Researched software control systems in collaboration with Head of Software at IPG Photonics
- Research title: Automated calibration and a real-time web-based control interface for fiber lasers.

Student at MIT Beaver Works Summer Institute — July 2016 – August 2016

- Utilized LIDAR and stereo camera data to implement autonomous navigation, planning, and mapping algorithms for the RACECAR platform, curriculum equivalent of MIT undergraduate class “Robotics: Science and Systems”
- Took rigorous daily lectures on topics such as: autonomous robotics, kinematics, planning and localization etc.

Co-founder and Director of MAHacks — Aug 2016 – July 2018

- Founded MAHacks, a high school hackathon with a focus on project sustainability and entrepreneurship
- Managed corporate relations and outreach with 20+ sponsor companies, negotiated $3000+ of sponsorship value

Board Member and Mentor at Youth CITIES — March 2013 - Present

- Heading creation of two online applications that bring digital mentorship to early-stage ventures
- Advising Youth CITIES on program development, strategy, and customer outreach

HONORS/AWARDS

- 1st Place Overall at the New England Botball Robotics Tournament — **April 2018**
- 3rd Place at MIT Blueprint Hackathon — **March 2018**
- Opening Speaker at the Massachusetts STEM Summit — **Nov 2016**
- 1st Place Overall at the Global Conference for Educational Robotics — **June 2015**

SKILLS

- **Computer Science:** Python, Python Scientific Libraries (Numpy, MatPlotLib, Pandas), Django, Psql, Javascript, Full-Stack Web Development, MTurk
- **Machine Learning and NLP Libraries**: Tensorflow, Keras, spaCy, NLTK
- **Soft Skills:** Event Organization, Team Management, Conflict Resolution, Public Speaking