Brandon Yue

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA **Sep 2018 – May 2022**

- Bachelor of Science in Electrical Engineering and Computer Science
- Cumulative GPA: 4.6
- Relevant Coursework: Mathematics for CS, Intro to Deep Learning, Intro to Algorithms, Fundamentals of Programming, Machine Learning, Software Engineering, Computation Structures

Tesla STEM High School, Redmond, WA

- Achievements: National AP Scholar, National Merit Finalist, Honors Student, School Tutor **Sep 2014 – June 2018**
- Cumulative GPA: 4.0
- Relevant Coursework: AP Computer Science, Advanced Java Projects, AP Physics C

EXPERIENCE

D-Lab Student Researcher – MUAC Band **Feb 2019- Present**

Mobile Application Developer: Computer Vision, Machine Learning, and Android Studio Development

- Developed Java-based Google Play application to assist with malnutrition in children
- Used OpenCV Library to optimize the MUAC Band app's measurement accuracy
- Investigated applications of Google ML-kit for OCR of hardware components

TEDxMIT **Feb 2019 - Present**

Founding Member, Treasurer

- Founded club and played creative role in conference organization
- Vetted and invited speakers as well as assisted with stage design, schedule management and website maintenance
- Oversaw all financial operations including fundraising, budgeting, and bookkeeping

VEX Robotics – High School Robotics Competition **Sep 2015 - Jun 2018**

World Championship Qualifier, Team Captain, Lead Programmer, Driver

- Program management: Organized meetings, developed robot design, managed finances
- Used Robot C to program autonomous/driving modes
- Piloted robot at various competitions, deployed strategy and exercised stress management

DATA IO Internship – Redmond, WA **Sep 2016 – Mar 2017**

High School Intern

- Worked in a three-man team to build, operate, and perform quality testing on pick and place machinery.
- Precisely calibrated PnP heads using lasers and modifications to system drivers
- Isolated defective components using a voltmeter and debugging/testing
- Repaired and replaced defective components using a soldering iron

Computer Programming **Sep 2014 – Present**

Web Developer, PSCSTA Coding Competition 4th Place, Arduino/Raspberry Pi

- Self-taught HTML + CSS, developed own website
- Competed in timed Python coding challenges
- Programmed Arduino unit for Imagine Tomorrow: Depressurized Distillation Project

ROLES & DISTINCTIONS

TEDxMIT, *Founding Member, Treasurer* **2019-Present**
Club/Collegiate Swimmer, *Team Captain, Instructor, Junior National Level Qualifier* **2006-Present**
MIT Poker Club, *Winter 2018 Finalist, Spring 2019 Finalist* **2018-Present**
Imagine Tomorrow NARA Biofuels Challenge, *First Place* **2016**
Scholastic All American Team, *GPA:4.0* **2015-2017**

SKILLS & INTERESTS

Technical: Python, Java, C++, C, C#, HTML, Android App Development, Spanish, Japanese
Interests: poker, swimming, metalsmithing, coding challenges, investment, product development, tutoring