Haicheng Charles ZHAO

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EDUCATION

Thomas Jefferson High School for Sci and Tech
GPA: 4.523 (weighted), 4.0 (unweighted)
SAT (NEW): 1600

SKILLS

General Purpose:	Python • Java • C
Web Development:	HTML/CSS • Javascript • Jekyll • Django • Flask
Other:	Git • Linux • ROS • LaTeX • MPI • OpenMP • Messenger Platform

AWARDS AND ACHIEVEMENTS

MAR. 2016 — **1st Place in IDT Programming Contest**
Worked with a partner in this contest held by Innovative Defense Technologies (IDT). Teams had to provide IDT, the "customer," with a robust package tracking solution. I worked on the mathematical parts, such as calculating the estimated time of arrival. Won $1500 for school and received tablets for winning 1st place.

FEB. 2016 — **Best Website at HackTJ 2016**
Worked with team of four to develop website that teaches Mandarin definitions and pronunciations. I mostly worked on speech recognition, text-to-speech, and the front-end. Best website out of 120 teams.

MAR. 2015 — **1st Place in Radford CTF**
Organized a team in this computer security competition hosted by Radford University.

MAR. 2017 — **2nd Place in VCU High School Programming Contest**
Worked with a team of four in this algorithms contest hosted by the Virginia Commonwealth University.

WORK AND VOLUNTEER EXPERIENCE

2015 – Present — **Student Systems Administrator**
Help set up and maintain school's servers as well as perform other technology-related tasks. Specifically, I help develop and maintain the TJ Intranet, which students and faculty use to take attendance, post news, and sign up for activities.

2015 – Present — **Project CODEt Executive Team Member**
This organization aims to expose elementary and middle school students to computer science early on. As a member of the executive team, I help decide what directions the organization takes to impact the most students. I am currently writing a full Python curriculum for students in Kenya who have no experience with programming.

2016 – 2017 — **TJ IOI Finance and Technology Lead**
On planning committee for TJ IOI, which is a seven-hour programming competition we are holding in May. As Finance Lead, I have acquired over $2000 in money and prizes. As Technology Lead, I have created a restricted Linux virtual machine on which participants will program during the competition.

ACADEMIC AND EXTRACURRICULAR ACTIVITIES

2016 – 2017 — **AIM Robotics FRC Team, Lead Programmer**
Lead programmer of the FIRST Robotics Competition (FRC) AIM Robotics team. I incorporated as much autonomy into the robot as possible. Won Innovation in Control Award.

2016 – Present — **Senior Computer Team Co-Captain**
Write and give weekly lectures as well as hold contests and select teams to participate in competitions.

Summer 2016 — **MIT Lincoln Laboratory Beaver Works Summer Institute**
Selected by Artificial Intelligence teacher as the male representative of my school to participate in this new program at MIT concerning autonomous vehicles. Four-week free summer program where we worked with faculty and students in teams to learn about and program mini autonomous cars.