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: React • Redux • SCSS • Jekyll • Django • Flask
Other: Git • Linux • ROS • LaTeX • MPI • OpenMP • Messenger Platform

Work and Volunteer Experience

Summer 2017 — PrepFactory Intern
Designed and developed an adaptive diagnostic test using React and Redux for this EdTech startup. The diagnostic quickly determines an estimated score range and confidence level for a student's performance on the ACT.

2015 – 17 — Student Systems Administrator
Helped set up and maintain school's servers as well as perform other technology-related tasks. Helped develop the TJ Intranet, which students and faculty use to take attendance, post news, and sign up for activities.

2016 – 17 — TJ IOI Technology and Finance Lead
On planning committee for TJ IOI, which was a seven-hour programming competition. As Technology Lead, I created a restricted Linux virtual machine on which participants programmed. As Finance Lead, I acquired over $2000 for shirts, food, facilities, and prizes.

Academic and Extracurricular Activities

2016 – 17 — 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 using computer vision and self-correcting steering. Won Innovation in Control Award.

2016 – 17 — Senior Computer Team Co-Captain
Wrote and gave weekly lectures on algorithms as well as held contests and selected teams to participate in competitions.

Summer 2016 — MIT Lincoln Laboratory Beaver Works Summer Institute
Selected as one of two students from my school to participate in this 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.

Awards and Achievements

MAR. 2016 — 1st Place in IDT Programming Contest
Worked with a partner in this contest held by Innovative Defense Technologies (IDT). We developed 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.

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