Stone Tao

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Education

International School of Beijing (ISB), Beijing, China, *Expected Graduation Date: May 2019*

- 4.18/4.30 GPA, Class Rank: N/A, Predicted IB Grades – Math HL: 7, Physics HL: 7, Chemistry HL: 7, Economics HL: 7, English A Language and Literature SL: 7, Spanish AB Initio SL: 7

Skills

Programming Languages: Java, C, Python, JS, PHP, HTML, CSS. | **Web Programming**: Node.js

Software: Adobe Photoshop

Selected Projects

Online English Learning Platform – Sept. 2018 ~ Present (Link: esee.isb.bj.edu.cn, Repository Link: It is a private repository)

- Collaborated on developing a platform for local Chinese students to easily read English books from my school's library anywhere and anytime. Created in collaboration with the Empowerment Through Self Esteem Education (ESEE) service club.
- Books from the school library that are difficult to find online are digitized by the platform through text-recognition software. Platform provides auditory and visual features, e.g. live-translation and audiobooks, to personalize the learning experience.
- Continue to develop the front and back-end of the platform. Primary contributions are the overall design, book procession and display page, back-end management system, and anti-cheat system for recording reading times.

Polytomizator – June 2018 (Link: stonet2000.github.io/Polytomizator, Repository Link: github.com/StoneT2000/Polytomizator/)

- Developed a user-friendly web app that allows users to create low-poly art in seconds compared to the hours it takes to create with Adobe Photoshop or Illustrator. Users can fine-tune the low-poly art or have the site auto-generate the art.
- A mix of image filtering, computer vision techniques, and Poisson disk sampling help auto-generate better low-poly art.

Teacher Appreciation Messages – Jan. 2019 (Link: No live demo, Repository Link: It is a private repository)

- Collaborated with other students at my school to create an interactive website through which people can scan a QR code and submit an appreciation message. The message is then instantly animated onto a beautiful, Chinese New Year themed landscape. The website was displayed across a hallway at my school for everyone to see.
- Programmed the website and frequently discussed with designers on the designs and artwork.

Cut Bread website – July 2018 (Link: stonet2000.github.io/Cut-Bread/, Repository Link: github.com/StoneT2000/Cut-Bread/)

- One of my favorite useless websites I made. It's all about trying to cut a piece of realistic looking bread as evenly as possible. Inspired by the "Ham Sandwich" theorem. Was ranked 4th most pointless of the month on pointlesssites.com.

Awards

- **MIT Battlecode 2019 (AI Competition)**: Battlecode Finalist, 9th overall, 4th out of high school teams – Jan. 2019
- **MIT Battlecode 2018 (AI Competition)**: Top 16 in international bracket, top 32 overall – Jan. 2018
- **Halite 3 (AI Competition)**: Ranked 66 out of 4000+ students and professionals globally. Achieved admiral status by placing above Two Sigma's benchmark bot. 5th placed high school student out of 500+ high school students. – Nov. 2018 ~ Jan. 2019
- **USA Mathematical Talent Search 2018**: Silver Medal – May 2018
- **World CodeSprint 12**: Silver Medal – 2017
- **School (ISB) Math Award** – May 2016

Community Engagement

ESEE, Co-executive of multi-media department, 2018 – Present

- Empowerment Through Self Esteem Education (ESEE) aims to teach local Chinese students English.
- Teach students English grammar, pronunciation, and grammar. Develop online English learning platform for students.

Extracurricular Activities

- **Fencing**: Compete nationally in the US and China, 12 competitions/year on avg. English host, referee, translator for local competitions. Captain and founder of the International School of Beijing Fencing Club. Lead drills with coach, solicited funding from school for training equipment. Guide younger fencers during competitions. 2011 ~ Present
- **Violin; Viola co-section leader in the ISB Orchestra**: Individually play violin. Lead/organize viola sectional practices. Play viola in a quartet and a chamber group. Teach violin to elementary school students at ISB. (In orchestra from 2009 ~ Present, co-section leader since 2017, taught violin since 2016)

Languages/Interests

Languages: Fluent English and Chinese, proficient Spanish. | **Interests**: Web Development, AI, Fencing, Physics, Mathematics