

Jason Xu

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Education

Tufts University | Medford, MA

August 2019 - May 2023

- GPA: 3.77/4.00
- School of Arts and Sciences
- Majors: Mathematics and Computer Science

Shanghai American School | Shanghai, China

August 2014 - July 2019

- GPA: 3.90/4.00
- Extracurricular Activities: Math Club President, Varsity Basketball, Link Crew Leader

Work Experience

Intern | Blueprint Education

June 2019

- Improved the student score database at Blueprint Education, a test preparation and college counseling company.
- Automated the importing of 2000+ student mock exam scores into Excel using VBA from multiple databases.
- Performed data analysis and created auto-updating score reports.
- Discovered score improvement trends that were then used for advertising and teaching purposes.

Office Assistant | Center for Cognitive Studies

August 2019 - Present

- Assist the Professors, Post Docs, and Program Administrators as an on-campus job at Tufts University.
- Designed posters, name tags, and other graphics for upcoming conference with projected 400+ attendees.

Projects

Brown Datathon | Wiki Atomic Edits

February 2020

- Given a dataset on Wikipedia edits with the original sentence, the inserted phrase, and the final sentence.
- Used Jupyter-Notebook, Scikit-Learn, NLTK, to create a Machine Learning model that predicted where the phrase would be inserted in the original sentence.
- As a team of three freshman, we received the Creativity award at the end of the Datathon.

JumboCode | Just-A-Start YouthBuild

August 2019 - Present

- Developing the front-end interface for a web application for Just-A-Start YouthBuild - a nonprofit organization aiming to educate those who have dropped out of traditional high school.
- Learned HTML, CSS, React.js, as well as Github while working on a team of 10.
- Implemented admin and user interface prototypes that were created by project designers.

Freelance Coding | Topcoder

June 2018 - Present

Proximity Hazard Detection

- Participated in a 20-day long online hazard detection competition in July 2018.
- Used footage from the back of a garbage truck and assessed the hazard level by identifying truck direction, bin lifter movement, and pedestrian movement.
- Learned Python and the OpenCV Computer Vision library and finished 3rd out of 142 registered participants.

Smart Investment Adviser: Python Optimization

- Tasked with turning Excel operations from a stock portfolio into Python using Jupyter Notebook.
- Used Pandas, Scipy.optimize, and Matplotlib to create necessary optimization and data visualization features.

Other

**Programming
Coursework**

C++, Python, Java, VBA, HTML, CSS, JavaScript, LaTeX

Awards

Linear Algebra, Discrete Mathematics, Data Structures, Calculus III (A), Intro to Computer Science (A), AP Computer Science (5), AP Physics C - Mechanics and E&M (5)
Sir Isaac Newton Exam - Certificate of Distinction, Purple Comet - 1st Place Team in China, National Merit Finalist, ASDAN Math Tournament - 2nd Place Team
