

# Jesse Zhong

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📄 jessewzhong

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## Education

### Columbia University

New York, NY

B.A. CANDIDATE FOR DOUBLE MAJOR IN COMPUTER SCIENCE AND MATHEMATICS, GPA: 3.772/4.0

May 2022

- **Coursework:** Physics I, Physics II, Honors Mathematics A, Honors Mathematics B, Honors Intro to Computer Science, Honors Data Structures/Algorithms, Intro to Computing for Engineers & Applied Scientists
- USA Computing Olympiad (USACO) Gold Division (2019 –)

### St. Mark's School of Texas, Salutatorian

Dallas, TX

HIGH SCHOOL DIPLOMA, GPA: 4.58/4.0

May 2018

- **Honors and Awards:** Cum Laude Society, University of Rochester Bausch and Lomb Science Award, Gauss Award for Advanced Mathematics, Leibniz Award for Calculus, Computer Science Award
- 2016 United States of America Junior Mathematical Olympiad (USAJMO) Qualifier
- Sharygin Russian Geometry Olympiad XII (2016) Correspondence Round Winner / Final Round Qualifier
- Six-time American Invitational Mathematics Examination (AIME) Qualifier (2013 – 2018)

## Experience

### Columbia Spectator B&I Division: SPECTECH

New York, NY

DEVELOPER

Sept. 2018 – Current

- Use front-end and back-end technologies such as HTML/CSS/JavaScript, React, and Node.js to develop our website and launch web apps, including special events pages and Vergil+

### Idea Math

New York, NY

INSTRUCTOR

Jun. 2017 – Current

- Teach computational mathematics, including algebra, combinatorics, number theory, and geometry, to improve students' problem-solving skills and performance in math competitions

### Art of Problem Solving

New York, NY

GRADER

Feb. 2019 – Current

- Give feedback to students' work in AoPS's online courses, from intermediate combinatorics to calculus

### Aweosome Math

Dallas, TX & Ithaca, NY

TEACHING AND RESIDENTIAL ASSISTANT

Jun. 2018 – Aug. 2018

- Graded students' tests and homework submissions and provided feedback on proof writing accuracy, concision, and style; engaged with students in problem sessions and office hours
- Lectured on partial fraction decomposition and composed original problems for the team contest

## Projects (📄jessewzhong)

**Cardrop:** web app that uses Wix and SmartCar API to allow rental car companies to automate their systems and customers to rent from geographic zones (**Winner of YHack Best Use of Wix API Challenge**)

Dec. 2018

**mathcycle:** full-stack project using JS and SQL that allows user to sharpen math skills using a conceptual/progressive approach with numerous original problems across four areas (**in progress**)

Dec. 2018 – Current

**TheDataOpen:** our team's report at Citadel's East Coast Datathon on the market potential of renewable energy sources in the United States, using data analysis and logistic regression to build models for the future

Feb. 2019

## Leadership and Activities

**Columbia Men's Ultimate Frisbee,** MEMBER

2018 – Current

**Columbia Society for Industrial and Applied Mathematics,** ORGANIZATIONAL COMMITTEE MEMBER

2018 – Current

**Hampshire College Summer Studies in Mathematics (HCSSiM),** PARTICIPANT, RESEARCH GROUP MEMBER

Summer 2016

**St. Mark's Math Team,** MEMBER AND CAPTAIN, FOUNDER OF THE ST. MARK'S MATHEMATICS TOURNAMENT

2014 – 2018

## Skills

### Technologies

Java, Python, HTML, CSS, JavaScript, Node.js, PHP, SQL, LaTeX