

Zhiyuan (Paul) Zhou

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EDUCATION

- Brown University, Sc.B. in Applied Mathematics-Computer Science** GPA:4.0 **Expected Graduation: May 2023**
- Relevant Courses: Statistical Inference I, Applied Ordinary Differential Equations, Honors Multivariable Calculus, Computer Science: An Integrated Introduction, Topics in Collaborative Robotics (graduate level), Principles of Economics, Critical Reading and Writing I: The Academic Essay, Early Modern Philosophy
 - CS projects: a deep neural network to control Skydio drones with Natural Language and hand gestures (Python); a machine learning algorithm using decision trees (Java); a search engine to query Wikipedia pages (Scala); an AI that can play all two-player, sequential, deterministic games (ReasonML), wrote a program that beat all other AI in class tournament; a GUI-based browser (Scala); an interpreter that reads, converts, and processes Racket programs (ReasonML)
- High School Affiliated to South China Normal University (SCNU), High School Diploma** **Graduation: June 2019**
- SAT Overall:1580. Critical Reasoning: 780, Math: 800, Writing: 20

INDUSTRY & RESEARCH EXPERIENCE

- Essence Securities Co., Ltd. Financial Securities Intern** Guangzhou, China | July 2019 – Aug 2019
- Investigated and visited two listed companies, learned about their production process, as well as their IPO and investment strategies in primary and secondary market
 - Communicated with clients about stock and bond buying service provided by the company
 - Examined fundamental knowledge about the financial sector, mainly about stocks and funds and asset allocation
- Panlelo Inc. Marketing Intern** Guangzhou, China | June 2019 – July 2019
- Designed and created a brand-new website using WordPress to promote company products
 - Learned and conducted Google Search Engine Optimization (SEO) on my new website
 - Optimized and maintained company TikTok account and uploaded short videos to help promote products
- South China Normal University Research Assistant** Guangzhou, China | Dec 2016 – Dec 2018
- Published a paper on using mobile technologies to promote natural disaster prevention under the guidance of Professor Xiaoyong Hu in School of Information Technology in Education
 - Conducted survey in 8 provinces and cross-analyzed data to uncover patterns in disaster awareness of different groups
 - Collaborated with graduate students to design a teaching app using App Inventor and founded a social media account
- Program in Mathematics for Young Scientists (PROMYS) Student Researcher** Boston, U.S | July 2018 – August 2018
- Completed research on the Fibonacci sequence in a group of 5 and wrote a 19-page paper collaboratively
 - Used numerical examples to discover properties, put forward conjectures, and proved many conjectures

HONORS & SKILLS

- Honors:** Finalist in High School Mathematical Contest in Modeling; Top 5% in AMC12 & qualification for AIME; Placed 227th in Putnam 2019; Regional Top 10 & International Top 100 in Physics Bowl; Provincial Top 1% in Chinese Physics Olympiad; Second Place in Hartshorn-Hypatia Math Contest; high school Valedictorian; AP Scholar with Distinction
- Scholarship:** only 2018 recipient of Yongren Full Fellowship at PROMYS, Brown University UTRA scholarship
- Programming Skills:** Skilled in Python, Pytorch, Java, Scala, HTML, C#, ReasonML, Pascal, and Racket
- Technical Skills:** MATLAB, Mathematica, Unity, LaTeX, WordPress, and Adobe CC

VOLUNTEER EXPERIENCE

- Shengsheng Interactive Math Class, Founder & Organizer** Online | Jan 2016 – Present
- Developed sustainable online Math class on UMU platform for 3300+ students from across China, including minority students, and directed other students to work with me to sustain the project
 - Uploaded about 300 Math tutorial videos & notes and conducted weekly web chats with students
 - Collaborated with teachers at Guangzhou 71st Middle School and developed a specific Math course for their students
- Foundation of High School Affiliated to SCNU, Organizer & Volunteer** Guangzhou, China | Sept 2016 – June 2019
- Directed charity sale that raised ~\$1350 for Min'an Middle School and negotiated with suppliers to obtain cheap supplies
 - Marketed event to student body and local community through a promotional video

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

- High School Affiliated to SCNU, President of Student Union** Guangzhou, China | Sept 2017 – June 2019
- Organized events such as New Year's party and school chorus competition as the student president
 - Led initiatives on school reform, including redesigning dining hall and combining school sport resources, and proposed three successful bills