

# Ze Yuan (Gavin) Zhang

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## EDUCATION

### Rice University (2019-2023)

Houston, TX

*Bachelor of Science in Computer Science*

*Bachelor of Arts in Computational and Applied Mathematics*

*Minor in Business*

- President's Honor Roll (3.9+ GPA)

### West Point Grey Academy (2014-2019)

Vancouver, BC

*BC Dogwood High School Diploma*

- Honor Roll With Distinction (92%+), 2016-2019; Honor Roll (86%+), 2014-2016
- PVG Tuition Award for Academic Excellence (Top 4 in grade for overall 2016-2019 GPA), 2019
- British Columbia Achievement Scholarship (Top 8000 in the province for cumulative GPA), 2019
- ACT Composite Score: 36

**Thompson Rivers University (2018-2019)** *Completed 4 credits of coursework*

Kamloops, BC

**Relevant coursework:** Fundamentals of Computer Engineering, Data Structures, Discrete Mathematics, Partial Differential Equations, Introduction to Operations Research, Introduction to Program Design

## TEAM EXPERIENCE

Sep 2019 - Present	<b>Analyst, Rice Undergraduate Investment Fund</b>	Houston, TX
<ul style="list-style-type: none"><li>• Improve returns with buy and sell pitches in the Energy sector</li><li>• Create clarity and transparency by writing semester reports</li></ul>		
Jan 2020 - Aug 2020	<b>Research Assistant for Dr. Peter J. Varman</b>	Houston, TX
<ul style="list-style-type: none"><li>• Optimized Fair-EDF, an earliest-deadline-first request scheduler seeking to fulfill the same percentage of requests from different clients via machine learning</li></ul>		
Sep 2019 - May 2020	<b>Member, Rice Hyperloop Propulsion Team</b>	Houston, TX
<ul style="list-style-type: none"><li>• Improved the Hyperloop model's speed by designing a cold gas thrust chamber</li><li>• Compete in SpaceX's competition by writing and submitting the final design paper</li></ul>		
Sep 2015 - 2019	<b>Director, Vancouver Youth Model United Nations (VY-MUN)</b>	Vancouver, BC
<ul style="list-style-type: none"><li>• Won Outstanding Delegate award in a variety of MUN conferences</li><li>• Selected as Director of COPUOS in VY-MUN 2018: oversaw 60 delegates and prepared extensive background documentation regarding the use of outer space resources</li></ul>		
Apr 2016 - 2019	<b>General Manager, UNA Community Youth Band</b>	Vancouver, BC
<ul style="list-style-type: none"><li>• Organized concerts, rehearsal venues, and distribution of volunteer hours</li><li>• Streamlined recruiting process by compiling a list of local music instructors</li></ul>		

## INDIVIDUAL PROJECTS

Jun - Jul 2020	<b>Bluetooth Controllable Table Tennis Serving Robot</b>	Vancouver, BC
<ul style="list-style-type: none"><li>• Worked on table tennis serving robot with a phone companion app to configure hitting patterns, spins, speeds via programming, circuit design, mechanical design</li></ul>		
Aug 2020 - Present	<b>Test Set Generator for Python Programs</b>	Vancouver, BC
<ul style="list-style-type: none"><li>• Creating a program to generate a concise set of test cases to ensure a correct implementation for Python programs given several incorrect implementations.</li></ul>		

## ADDITIONAL

### Honors & Awards:

Top 3%, Michael Smith Science Challenge (National) (2016)

RCM Level 10 Piano with Honors (2016)

First Place, \$5000 CAD grant for a local non-profit organization, Youth and Philanthropy Initiative (National) (2017)

3rd Place, Distinguished Speaker, WPGA Global Affairs Debate Tournament (2018)

**Relevant Skills:** Java, Python, MATLAB, HTML, CSS, Javascript, circuit design, basic investing, financial accounting, communication, leadership

**Languages:** Bilingual: Mandarin and English; Beginner in French

**References:** Available upon request