Han Zhou

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Education

University of Waterloo **Sep. 2023 – May. 2028**
Bachelor of Computer Science *Waterloo, ON*

- Awarded President's Scholarship of Distinction with an early-May admission average of 95% valued at $2000

Charles P. Allen High School **Sep. 2020 – Jun. 2023**
International Baccalaureate Diploma *Bedford, NS*

- Leader of Math Club & Co-founder of Physics Club, taught and coordinated Math/Physics contests for 60+ people
- Graduating mark 44/45

Experience

Brilliant Labs / Labos Créatifs **Jul. 2023 – Aug. 2023**
Student Mentor *Halifax, NS*

- Planned, organized and created innovative content related to STEM aimed at teens aged 10+. Content including but not limited to: Makey-makeys, Arduino sets, Scratch games, etc.
- Collaborated with fellow colleagues to deliver knowledge in a fun and engaging way.
- Fluency in French, achieved through interacting with Francophone audiences

Halifax Public Libraries **May 2019 – Aug. 2019**
Teen Podcast Volunteer *Halifax, NS*

- As a member of a 3-person team, produced, recorded and edited original content relating to current events for teens

Projects

Portfolio Website | *HTML, CSS, JavaScript* **Dec. 2023**

- Designed and developed a minimalist portfolio website for showcasing and describing myself.
- Utilized JavaScript to decorate, making it responsive and adaptable to both desktop and mobile.

Investigation of Approximating π using Probability | *Python* **Jan. 2023**

- Attempted and succeeded in approximating π through Buffon's needle experiment and a self-invented experiment based on Pólya's recurrence theorem.
- Composed and explored different paths of investigation, using integration, joint PDF, Stirling's approximation, etc.
- Designed experiments and visualized results in Python.

Investigation of the small angle approximation in Young's double slit interference experiment | **Oct. 2022**

- Created and devised experiments,methods and tools, analyzed data and formulated essay on how the error of the small angle approximation and its overall impact in the results obtained from the diffraction of light

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, Racket
Developer Tools: VS Code, IntelliJ IDEA, PyCharm, Stack Overflow, Git
Technologies/Frameworks: Linux, GitHub, jQuery

Leadership / Extracurricular

- Solid team player, played AA-level soccer in high school.
- Creativity, played piano for 5 years and is also an amateur guitar enthusiast.
- Unhindered communications skills, bilingual efficiency in Mandarin and English, professional working efficiency in French.