

# Eric Tianyu Zhu

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## EDUCATION EXPERIENCE

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### Earl of March Intermediate & Secondary School

September 2017 – June 2025

OSSD High School Diploma

Ottawa, Canada

- Relevant Coursework: English, French, Civics, History, Mathematics, Science, Computer Science, Instrumental Music.

### Shad Canada in Campus at Wilfrid Laurier University (Waterloo Campus)

Jun 2024

Certificate of Achievement

Waterloo, Canada

- Relevant Coursework: Explored university-level STEAM Topics, Entrepreneurship Skills, and Hands-On Learning in Shad Canada summer enrichment program for high-achieving high school students.

### Summer Institute for the Gifted (SIG) at Yale University

Jun 2022

Certificate of Completion

New Haven, US

- Relevant Coursework: Completed *Biotechnology Engineering: Advancements and Ethics*, developed a strong proficiency in Python and delved into topics like soldering, electrical engineering, circuit design, and 3D design.

## EXTRACURRICULAR ACTIVITY

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### FIRST Tech Challenge

2023 - Present

Member of Team 24388

- Served as student mentor of the team to provide guidance and foster an innovative environment that emphasized on problem-solving, communication, and collaboration.
- Designed and built robots using off-the-shelf components and programmed them on Java or Blocks.
- Helped members prepare for real-world STEM challenge.

### FIRST Robotics Competition

2023 - Present

Member of Team 7476/9127

- Contributed in team 7476 by providing original ideas on hardware design, construction, and programming for advanced robotics challenges.
- Supported business operations of team 9127 by securing sponsorships and managing logistics.

### Fictional Novel Composition

2022 - Present

Independent Writer

- Currently at ~50,000 words, 102 pages.
- The novel follows Idewin and Mari as they navigate personal trauma, societal conflict, and magical trials in a world defined by exploitation and oppression. Facing fears, grappling with identity, and battling the violent threat of the Stickmen, they confront survival and moral dilemmas. Through this

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journey, they build the confidence to mature, confront their challenges, and work toward a brighter future for everyone.

## **Longitudinal Research and Data Collection on Lifestyle** 2021 - Present

Independent Researcher

- Monitored 9 qualitative and 9 quantitative fields of daily life over ~3 years, produced over 14 months of data in varying formats and fields.

## **Auxilium Local Branch** 2020 - Present

Earl of March Math Peer Tutor

- Volunteered as a Auxilium Branch Member and taught algebra, geometry, and combinatorics to peers.
- Time Commitment: 1 hour of peer tutoring per week for a total of 42 weeks in a year.

## **Earl of March Concert Band** 2020 - Present

Player of the Flute

- Participated in Music-fest regional's competitions and bi-annual concerts hosted at Earl of March, as a member on the band that won the silver medal at regional's two times and the gold at nationals once.

## **The Royal Conservatory of Music** 2013 - Present

Piano Player

- Completed Piano Level 9, current in Level 10 (exam will be in June 2025)

## **Tamarack Home Ottawa Race Weekend** 2019 - 2024

Event Volunteer

- Worked as the volunteer for the Ottawa Race Weekend for 5 consecutive years, prepared drinks and wet towels for exhausted marathon and half-marathon runners that participated in this annual running event.

## **City of Ottawa** June 2023

Volunteer Camp Counselor (Full-time)

- Worked under the supervision of a Camp Coordinator to complete tasks of shadowing paid staff, supervising children, and leading activities.

## **Goulbourn Sea Hawks Swimming Club** 2017 - 2023

Competitive Swimming Member

- Received high-quality professional coaching and technical instruction to improve on athletic skills in Competitive Swimming with 13 awards.

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## HONORS AND AWARDS

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<b>Ottawa Dragon Boat Festival</b>	2023 - 2024
<ul style="list-style-type: none"><li>• Won "F" Final Cup Champion with 21 other team members competing with 170 teams in 2023 and 140 teams in 2024.</li></ul>	
<b>Ottawa-Carleton District School Board Silver Medalist</b>	2022 - 2024
<ul style="list-style-type: none"><li>• Awarded to students who maintained an average over 90% in Grade 09, 10, 11.</li></ul>	
<b>Earl of March Honor Society Award</b>	2022 - 2024
<ul style="list-style-type: none"><li>• Awarded to students who maintained an Average of 80% or higher Grade 9, 10, 11.</li></ul>	
<b>Fermat Math Contest at University of Waterloo</b>	2024
<ul style="list-style-type: none"><li>• Ranked Top 25% in Fermat Math Contest held by University of Waterloo.</li></ul>	
<b>Cayley Math Contest at University of Waterloo</b>	2023
<ul style="list-style-type: none"><li>• Ranked Top 25% in Fermat Math Contest held by University of Waterloo.</li></ul>	
<b>Galois Math Contest at University of Waterloo</b>	2023
<ul style="list-style-type: none"><li>• Scored 35/40 in Galois Math Contest held by University of Waterloo.</li></ul>	
<b>Canadian Computing Competition</b>	2022
<ul style="list-style-type: none"><li>• Scored 4/5 in Canadian Computing Competition held by University of Waterloo.</li></ul>	
<b>AMC 10</b>	2020
<ul style="list-style-type: none"><li>• Third place in cohort.</li></ul>	

## CERTIFICATES AND SKILLS

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### Certificates

Piano Level 9, Music History Level 9, Harmony Level 9 certified by the Royal Conservatory of Music.

### Languages

- **English:** Native
- **Mandarin:** Native
- **French:** Fluent

### Programming Languages

- Python, Java, HTML, CSS,
- Node.js, Astro, Godot, C++.