

# Ruthie Zhang

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## SUMMARY

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- Motivated engineering student with a huge interest in the biotechnology sector, eager to apply and expand my technical skills in a hands-on environment
- Strong collaborator with hackathon experience in fast paced, team based problem solving
- Recognized for resilience, initiative, and a people first mindset; committed to growth and helping others
- Technical skills: Python, C++, MATLAB, API integration, SolidWorks, data analysis

## EXPERIENCE

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### Biomechatronics Design Team Mechanical Team Member

September 2025 - Present

- Created detailed CAD models of mechanical components for a soft exoskeleton in SolidWorks
- Collaborated with multidisciplinary team members to develop and refine design concepts for exoskeleton prototypes

### Candle Business – Founder & Operator

March 2021 - August 2025

- Founded and operated an independent candle business, designing and producing products sold in retail stores, bulk orders, and to customers internationally
- Developed and designed a custom website to showcase products, manage brand identity, and support online sales
- Managed end-to-end operations including product development, marketing, and customer engagement
- Sold over 500 candles, donated \$1,000 in profits to cancer research
- Sponsored 3 cancer initiatives across Ontario
- Featured on CBC

### Waterloo Region Youth Advisory Committee

September 2023 - August 2024

- Participated in monthly regional meetings to collaborate on civic improvement projects
- Contributed to the Charles Street Terminal revitalization project, providing youth perspective to shape regional initiatives.
- Delivered presentations to Regional Staff, Regional Council, and community members, strengthening public speaking, communication, and leadership skills.
- Actively represented youth voices, impacting policies affecting over 600,000 residents

### Hackathons

June 2023 - August 2024

- Built ML models using TensorFlow and Python to solve real world challenges
- Collaborated in teams to pitch and prototype solutions under time constraints
- Developed website and Discord bot development using APIs

## EDUCATION

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### University of Waterloo — Bachelor of Applied Science Biomedical Engineering

Expected Graduation: April 2030

Courses: Biomedical Design, Calculus, Linear Algebra, Physics Statics and Dynamics, Chemistry, 3D Modeling

Clubs: Velocity Program, Biomechatronics Design Team, BME Society, Serve Volleyball Club

## LANGUAGES

- English — Native, Proficient
- French — DELF B2
- Mandarin — Conversational