

Ruthie Zhang

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SUMMARY

- 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

Candle Business – Founder & Operator

March 2021 - August 2025

- Designed, produced, and marketed handmade candles
- Built and maintained e-commerce website
- Sold over 500 candles at local markets and retail stores
- Donated and raised over \$1000 for cancer

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

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

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

EDUCATION

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