

# Yucheng Tu

Toronto, ON

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## WORK EXPERIENCE

### Summer Research Intern May 2024 – September 2024

iMed Lab, University of Toronto, Ontario, Canada

- Integrated PyTorch and machine-learning models that are capable of classifying swallowing events as normal or abnormal, then quantifying swallowing severity on a scalable metric.
- Created a user-friendly PC application using Python and the PyQt framework to connect with the HRCA device for real-time monitoring and analysis of swallowing signals.

### Project Specialist September 2021 – June 2022

WISEHouse International Education, Shanghai, China

- Prepared students (ages 5-14) for top Canadian private-school applications: interview preparation, language training, documentation enhancement, and cultural orientation.
- Led a transition program preparing Chinese students (aged 12-14) for integration into the Canadian education system for their upcoming academic journeys.

## TECHNICAL ENGAGEMENTS

### FPGA Developer Fall 2023

ECE241 Digital System, University of Toronto

- Implemented the classic 24 game based on FPGA as an academic project, using Verilog, Quartus and ModelSim.
- Integrated multiple interfaces and outputs, including VGA display, keyboard input and audio output.

### Web Developer & Active Club Member 2023 - Present

UTExtendedReality Club, University of Toronto

- In a two-member team, collaboratively completed a full-stack development of the club's website, utilizing a robust technology stack including HTML & CSS, JavaScript, ReactJS, and NodeJS.

## LEADERSHIP ACTIVITIES

### Project Manager Winter 2022

Engineering Strategies & Practice II, University of Toronto

- Led a six-member engineering team to complete a design project for a client over three months.
- Defined project vision, distributed tasks, and ensured timely completion.

## EDUCATION

### Bachelor of Applied Science in Computer Engineering + PEY Co-op, University of Toronto

Sept 2022 – Present

**CGPA: 3.86 / 4.00**

## TECHNICAL SKILLS

- **Coding Languages:**  
**Software:** C, C++, JavaScript, HTML and CSS, Python.  
**Hardware:** Verilog, Quartus and ModelSim.
- **Library/Frameworks:** Reactjs, Nodejs, MongoDB, PyTorch, PyQt, Numpy, Pandas.
- **Other tools:** Git, Shell, Excel, FinalCutPro.

## SOFT SKILLS

- Multilingual Communication:
  - Chinese Mandarin: Native
  - English: Fluent
  - Japanese: Conversational
- Project Management
- Scheduling and Communication
- Problem Solving
- Teamworking

## AWARDS

- Dean's Honour List, UofT Engineering all semesters.
- University of Toronto Excellence Award.
- Faculty Of Applied Science And Engineering Admission Scholarship (CA\$5000).