




JINGTIAN HU

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SUMMARY

An undergraduate student at the University of Toronto pursuing a Computer Science Specialist. Skilled and fluent in Python, Java HTML, CSS, JavaScript, and SQL. Always Enjoy finding novel solutions, love to see efforts bring positive changes to people, and want to be part of an inclusive environment to communicate efficiently and strive towards collaborative innovation.

EDUCATION

University of Toronto

CS/ Data Science Double Specialist

Aug. 2024 - Present

Toronto, Ontario

- cGPA: 4.0

ADDITIONAL EDUCATION

Downing College Cambridge

Certificate Course - Computer Science

Aug. 2023 – Aug. 2023

Cambridge, England

- Studied machine learning (Python-based, learned pandas and numpy) and university-level math at Downing College, Cambridge
- Presented a RSA encryption algorithm for math and a performance analysis of supervised and unsupervised machine learning models fed by real-world data on credit evaluation, a binary classification problem, for computer science as final projects
- Finished the summer program with A+ and gained insights into statistical learning and began to see how the various areas of mathematics that I have studied fit together

EXPERIENCE

City University of Hong Kong - CALAS

Exchange Research Intern

June. 2025 – Aug. 2025

Hong Kong, China

- Built an RV32I softcore (a CPU based on RISC-V architecture) from scratch using High Level Synthesis (HLS) on PYNQ-Z2.
- Inserted a JPEG decoder to PYNQ-Z2 base overlay to process videos stored in MJPEG format which boosted processing speed twice compared to the ARM processing system.
- Developed a mono-tasking programmable system running on a bare-metal ARM that incorporates an editor, BF interpreter, and machine code parser.

EXTRACURRICULAR ACTIVITIES

New College, University of Toronto

Jr. House Representative

Sept. 2024 – May. 2025

Toronto, Ontario

- Collaborated with representatives from other houses to plan and execute a joint Halloween decoration event, increasing inter-house engagement.
- Organized and led biweekly social events (bubble tea hangouts), fostering community and increasing resident participation in house activities by approximately 20%.
- Served on the New College Dining Committee as a student representative, advocating for student feedback and contributing to 3 improvements in future meal plan mode and pricing.

STEM Club at MLIA-SZ

Cofounder

Since Sept. 2022

Shenzhen, Guangdong

- Developed and delivered Arduino workshops to 10 students, teaching fundamental electronics and programming concepts and enabling them to build their own projects.
- Designed and constructed a functional RC boat using IR sensors and motors, demonstrating practical application of engineering principles and problem-solving skills.
- Organized and managed a remote-control boat racing competition for 8 participants, fostering teamwork, friendly competition, and showcasing student projects at the end of the semester.

UT Chinese Students and Scholars Association

Director of Campus Focus

May. 2025 – Present

Toronto, Ontario

- Facilitated communication between UTCSSA and UofT
- Organized Campus Focus members to analyze data to understand member-wise participation for awarding
- Led a web project for managing resources, logging members' participation, and automating requests and Co-Curricular Record report generation

PROJECTS

Easy Comm

Jan. 2025

- Achieved efficient, low-level communication with socket,
- Accomplished a user-friendly GUI client and a command line help manual with tkinter,
- Implemented efficient non-blocking design with selectors so that 10+ people can chat in the same time

Enterprise Resource Planning Platform

Oct. 2024 – Present

- Built a web enterprise resource planning platform for UTCSSA. It is right now being tested by a group of 10 people in the association. The system is planned to be used by 100+ members. The data stored is handed to the analyst team for further analysis.
- Members can create profiles so that UTCSSA smoothly collects the necessary data required for their school recognition credit application.
- Implemented an event and job approval and log system to increase association efficiency and record member participation fairly.

AWARDS

University of Toronto - Capture The Flag

3rd. place within UofT division, awarded with \$100 CAD

Jan. 2025

Toronto, Ontario

Canadian Computing Competition (Junior)

Perfect score: 1st in the Honor Roll

Nov. 2022 – Feb. 2023

Shenzhen, Guangdong

University of Toronto - The International Merit Admission Award

Total worth of \$50,000

April. 2024

SKILLS & INTERESTS

Skills: HTML, Python(numpy, Django, Tkinter, Request), Java, C, Nginx, Javascript, R, Linux, Docker, Cloudflare, SQL

Languages: English (fluent), Mandarin (native)