University of Waterloo

Co-operative Work Terms

Ryan WU

20926635

1B Mathematics, Honours, Co-operative Program

No Co-op Work Term History available

Planned Future Work Term(s)

May - Aug 2022

Jan - Apr 2023

Sep - Dec 2023

May - Aug 2024

Jan - Apr 2025

Sep - Dec 2025

Qifan(Ryan) Wu

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Github: tiresias7 (github.com)

SUMMARY

- 6 years of programming experience with **C++** throughout CS contests
- Proficient in **Python, Pascal, Racket**, familiar with data structures and algorithms
- Strong problem-solving skills with innovative approaches and solid math knowledge
- Quick leaner, enthusiastic individual contributor, and detail-oriented team leader

AWARDS

Canadian Computing Competition:	Distinction, full grade	2021
USA Computing Olympiad:	Platinum level	2020
American Mathematics Competitions 12:	Distinction, top 1%	2020 & 2018
2019 ICPC Asia Shanghai Regional Contest:	Sliver	2019
36th National Olympiad in Informatics, China:	Bronze	2019

PROJECTS

Google Foobar Challenge

- Learned Python within a month and accomplished all 5 levels within 3 days
- Applied algorithms such as Floyd-Warshall algorithm and Pólya enumeration theorem

Ataxx

- Independently designed and developed a board game application using C++
- Applied Negamax algorithm with alpha-beta pruning to construct the AI

Zuma

- Identified flaws within existing solutions and raised counterexamples
- Proposed a new algorithm with Dynamic Programming using C++
- Awarded first prize in Shanghai Adolescents Science and Technology Innovation Contest as individual research author

WORK EXPERIENCES

Teaching Assistant, Physics	Sept 2020-June 2021

- Tracked attendance, answered questions, corrected assignments and tests, shared lecture summary

Turing Club leader (CS club)	Mar 2019-Mar 2020

- Organized meetings, recruited new members, delivered lectures, and promoted club

Teaching Assistant, Informatics	Sept 2018-Jun 2019

- Tracked attendance, answered questions, shared knowledge, and designed mock tests before finals

EDUCATION

University of Waterloo

Candidate for Honours Bachelor of Computer Science	2021-present

UNIVERSITY OF WATERLOO
UNOFFICIAL GRADE REPORT

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Winter 2022

PD	1	Career Fundamentals	
CS	146	Elem Alg Des and Data Abst Adv	
STAT	230	Probability	
CLAS	104	Classical Mythology	
MATH	146	Linear Algebra 1 (Adv Level)	
MATH	148	Calculus 2 (Advanced Level)	

Term Average: N/A   Decision:

Fall 2021

MTHEL	99	First-Year Math Readiness	CR
		First year readiness	
SEQ	1	Co-op Sequence 1	
CS	145	Design Funct Programs (Adv)	97
ECON	101	Intro to Microeconomics	100
ENGL	109	Intro to Academic Writing	91
MATH	147	Calculus 1 (Advanced Level)	100
MATH	145	Algebra (Advanced Level)	96

Term Average: 96.8   Decision: