

## EDUCATION

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### Master of Mathematics (MMath), Computer Science

September 2021 - August 2023

#### University of Waterloo; Waterloo, ON

- Thesis-based master's program co-supervised by Prof. Craig Kaplan and Prof. Daniel Vogel (4.0/4.0 GPA)
- Focus in Human-Computer Interaction (HCI) and Computer Graphics (CG)
- GPA: 4.0/4.0 | 95.5%

### Bachelor of Science (BSc), Computer Science & Mathematics, Physics Minor

September 2017 - June 2021

#### Mount Allison University; Sackville, NB

- Graduated with first class honours and distinction, Dean's List throughout
- Studied abroad in Canterbury, England at the University of Kent
- GPA: 3.62/4.0 | 90.5%

## WORK EXPERIENCE

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### Graduate User Interface Research Intern

September 2022 - December 2022

#### Autodesk; Toronto, ON

- Leading an HCI research project with two members of the UI Research group, with the ultimate goal of a research publication
- Exploring the idea of large or expansive user interfaces in desktop, augmented reality, and virtual reality environments

### Undergraduate User Interface Research Intern

May 2021 - August 2021

#### Autodesk; Toronto, ON

- Created a MERN application to schedule and run meetings, which is now used by the research group on a weekly basis
- Worked closely with my manager and the UI Research team to design and improve the application

### Research Assistant

May 2020 - September 2020

#### Computer Vision Project, Mount Allison University; Sackville, NB

- Generated structural priors using Python to gather a more sophisticated prior probability distribution over web page structures
- Co-author for upcoming research publication on the vision-based segmentation of web pages for assistive technology
- Presented research at Science Atlantic Conference for Mathematics & Computer Science (November 2020)

### Marketing Research Assistant

May 2020 - September 2020

#### Naida Communications; Winnipeg, MB

- Conducted interviews, surveys, focus groups and other client research
- Assisted team members with sales, marketing, strategy and account management initiatives

## TEACHING EXPERIENCE

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### Teaching Assistant/Instructional Apprentice (TA/IA)

September 2021 - present

#### University of Waterloo; Waterloo, ON

- Marking assignments for introductory computer science courses

- Clarifying course concepts and providing assistance with coursework in office hours

### Teaching Assistant, Computer Science & Mathematics

January 2019 - May 2021

#### Mount Allison University; Sackville, NB

- Supervised students during laboratory sessions and in-class activities
- Marked lab submissions and assignments
- Invigilated examination periods

### Tutor

November 2018 - May 2021

#### Mount Allison University; Sackville, NB

- Conducted one-on-one tutoring sessions for computer science, mathematics, and physics courses
- Organized through the Meighen Centre, for students with documented disabilities, or through the English Academic Bridging program, for students with non-English backgrounds seeking academic assistance

### Note Taker

January 2018 - May 2021

#### Mount Allison University; Sackville, NB

- Took comprehensive notes for every lecture and lab of specified courses
- Uploaded notes several times a week to the Meighen Centre, for students with documented disabilities

## LEADERSHIP EXPERIENCE

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### President

May 2020 - May 2021

#### Mathematics & Computer Science Society, Mount Allison University; Sackville, NB

- Planned, promoted, and executed social and educational events for members of the society
- Represented the society at departmental meetings
- Ran executive meetings to discuss ideas and organize events with other members of the executive team

### Executive Member

September 2019 - March 2021

#### MtA Hacks hackathon, Mount Allison University; Sackville, NB

- Helped organize and execute MtA Hacks, a computer science conference hosted by Mount Allison University
- Raised funds for the event by reaching out to potential sponsors

### Lead Coordinator

September 2020 - November 2020

#### Science Success Course (START@MTA), Mount Allison University; Sackville, NB

- Led a 6-week program to help first year students with the transition into university study
- Organized and ran a weekly meeting to help 20 student leaders prepare for their sessions
- Developed additional curriculum for the program

### Founder of E-Commerce Store

May 2020 - November 2020

- Sold 200+ items and gained over 10K followers in the first 3 months of business
- Individually sourced vintage and secondhand goods for sale
- Handled all inventory and shipping logistics

## AWARDS AND RECOGNITIONS

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#### David R. Cheriton Graduate Scholarship — \$10,000 per year

2021 - present

Awarded to top graduate students based on academic excellence and research potential

#### Top Student Scholar Award — \$2,000

2017

Awarded to one student per province with the highest grade 12 mid-term admissions average

**L.A. Goodridge Scholarship — \$4,000 per year****2017 - 2021**

Awarded to one student per year level, with an interest in medicine

**Dean's List****2017 - 2021**Recognition given to full-time students who have maintained a first-class average (  $\geq 3.7/4.3$  )**SKILLS**

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- Python
- Java
- React
- JavaScript
- Node.js
- HTML/CSS
- MATLAB
- Git
- Blender
- Unity
- C#
- C++
- MongoDB
- Adobe Photoshop
- Figma
- Fluent in English and Mandarin
- 5+ years of artistic training
- CA/US dual citizenship