

# YAHYA ELGABRA

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## Education

### University of Toronto

Sep 2021 – Apr 2025

*Honours Bachelor of Science in Computer Science ASIP Co-op Stream*

*Toronto, Ontario*

- Dean's List Scholar for 2021 - 2022 academic term with cGPA of 3.84/4.0

### Relevant Coursework:

- Software Design
- Computer Organization
- Software Tools and Systems Programming
- Data Structures and Analysis
- Theory of Computation
- Intro to Databases

## Technical Skills

**Languages:** Python, R, Java, HTML/CSS, JavaScript

**Developer Tools:** Git, VS Code, IntelliJ, PyCharm, Unity,  $\text{\LaTeX}$

**Technologies/Frameworks:** GitHub, Linux, OpenCV, PyTorch, NumPy, ROS

## Projects

### Web Development | *HTML, CSS, JavaScript*

- Designed and created a [calculator](#), [rock-paper-scissors](#), and an [etch-a-sketch](#) using **HTML, CSS, JavaScript**.
- Implemented particles.js for personal website.

### Outside Inside Onside | *C#, Unity*

- Won first place out of 6 submissions in game jam hosted by Game Design and Development Club at University of Toronto by working with two colleagues to develop a [rogue-like tower defense game](#) using **C# and Unity**.
- Responsible for programming enemy AI, projectile collisions, and animation.

## Extracurricular

### Computer Vision

Sep 2022 - Present

*University of Toronto Robotics Association*

*Toronto, ON*

- Developed computer vision in preparation for IGVC as member of the Autonomous Rover Team.
- Tasks include lane and barrel detection, shrinking U-Net using **PyTorch, OpenCV, NumPy, ROS**.

### Recognized Study Group Leader

Sep 2021 - Present

*University of Toronto*

*Toronto, ON*

- Organized weekly review sessions throughout the year for a group of 6 students.
- Focused on enhancing students' understanding of course content.
- Worked with other student leaders during a leadership training session to learn effective collaborative learning techniques proven to increase participant engagement.

### Board Game Club Executive

Sep 2022 - Present

*University of Toronto*

*Toronto, ON*

- Arranged weekly sessions with 30+ attendees for destressing and socializing.
- Built a club website to increase participation and attract new members using **HTML, CSS, JavaScript**.

### Volunteer

Sep 2020 - Mar 2021

*ACTVET*

*Abu Dhabi, UAE*

- Participated in the FAZAA initiative, launched by ACTVET, as a volunteer for 3 hours weekly.
- Organized and managed marathons and other events with local organizations.

## Achievements

### Euclid Math Contest

2021

*University of Waterloo*

- Ranked top 25% from over 20,000 contestants in the Euclid math contest by the University of Waterloo.

### Canadian Computing Competition

2021

*University of Waterloo*

- Ranked top 25% from over 2,900 contestants in the Canadian Computing Competition by the University of Waterloo.

### Web Design Certificate

2021

*FreeCodeCamp*

- Responsive Web Design Certificate from FreeCodeCamp after finishing HTML, CSS, and JavaScript coursework.