

# Matthew Yu

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## EDUCATION

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### University of Waterloo

Bachelor of Mathematics (Honours)

CS Club, DS Club, VP of Operations for Residence Council, MATH 145

*Sept 2025 – Present*

Waterloo, ON

### Dr. G. Williams Secondary School

High School and IB Diploma

2x OFSAA Cross Country, Math Club President, Game-Dev & Peer Tutors Exec

Mark: 97.7%

*Sept 2021 – June 2025*

Aurora, ON

## EXPERIENCE

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### Reality Labs Design Team

*Software Engineer*

**Technologies:** Javascript, C#, Express JS, Websockets, Unity

*September 2025 – Present*

Waterloo, ON

### Project: Empower

*Backend Developer*

**Technologies:** Python, Beautiful Soup

*August 2024 – August 2025*

Remote

### Mu Systems Corporation

*Backend Intern*

**Technologies:** Zentao, Java, Spring Boot, Python, Beautiful Soup

*July 2024 – August 2024*

Remote

## SKILLS

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### Programming Languages

Java, C, C++, Python, JavaScript / TypeScript, Lua, Racket

### Web & Software Development

React, Next.js, Node.js, Express, Tailwind, HTML, CSS

### Systems & Tools

Bash, Vim, Git, Slack, GitBook, Figma, LaTeX

### Data & Machine Learning

TensorFlow (Keras), OpenCV, MongoDB, MySQL, Firebase, Web Scraping (Beautiful Soup, Selenium)

### Simulation & Game Development

Blender (Modelling, Rigging, Animation), Unity, Roblox Studio (Lua Scripting, UI Design)

## SOME PROJECTS

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### Focus Friend – EEG-Based Focus Detection System

*React Native, TypeScript, Hardware (Arduinos, Op-Amps) C++*



### InTouch – Personalized Cold Emails

*Flask, Auth0, Beautiful Soup, Selenium, JavaScript, Pinecones, MongoDB*



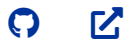
### Your Legacy – First-Person Battle Royale

*Lua, Blender, Raycasting, client-server interactions, UI & Game Design*



### Philos - 3D Personable Friend!

*Next JS, OpenCV, Three, Azure, Tensorflow, Tailwind, Cookie-based Auth*



More Projects and Details on my [website!](#)