

MATTHEW YU

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EDUCATION

University of Waterloo

Honours Mathematics Bachelor Degree

VP of Operations - Residence Council, Reality Labs Design Team ,
MATH 145, CS 145 (Advanced Level Courses)

Sept, 2025 - Present
Waterloo, Ontario

Dr.G.W.Williams Secondary School

International Baccaureate Diploma Program

Math Club Co-President, Game Development Executive

Sept, 2021 - Present
Aurora, Ontario

EXPERIENCE

Project: Empower

Backend developer

- Monthly check-ins to ensure dedication and focus on goals
- Working inateam to implement a web-scrapper

July, 2024 - Present
Remote

July, 2024 - August, 2024
Remote

Mu System Corporation

Summer Internship

- Developed aprototypewebscraper to gather competitors using python and beautiful soup
- Worked on industry-wide problems like: Route Optimization and improving item search presenting biweekly

July, 2024
Online

SHAD Summer STEM Program

Design Team Member

- Exploring and learningall fields in STEM
- Simulated a professional design team of 5 to propose ideas and prototypes on real-world issues in front of industry professionals.

CONTESTS & ACHIEVEMENTS

Math Certifications of Distinction: Cayley,Fermat,COMC,AMC,CSMC,2XAIMEQualiferetc...

Sept. 2019 - Present

USA Computing Olympiad: Sliver Division

Sept. 2021 - Present

Online Judges: Hundreds of solved problemsinCodeforces,CSSES,DMOJ,Atcoder

Sept. 2021 - Present

Canadian Team Math Competition: Top 6Team

April 2024

1stPlace at PTC Hacks: Life Under Water(FirstHackathon)

June 2024

SKILLS

Languages: Java, C++, Python, HTML, Javascript, Typescript, Lua

Libraries & Technologies: React JS/TS, Next JS/TS , Node JS, Express JS, Bash, Terminal, Vim, NoSQL (Firebase &

MongoDB), MySQL database, Web Scraping (Beautiful Soup), Tensorflow (Keras), Blender modelling, animating, & rigging

Collaboration & Communicating: Git, Slack, Gitbook, Figma, CSS, LaTeX, Manim

SAMPLE OF PERSONAL PROJECTS

MiliBLOCK - Efficient & Customizable Website Blocker

- Utilizes Chrome.Storage API to store past actions done by the user
- Built Vanilla HTML, CSS, Javascript
- Motivational System, allowing users to stay dedicated to their goals
- Designing Brand and Marketing it on Chrome Web Store, reaching a peak of 8 unique users.



Focus Friend - EEG-Based Focus Detection System

- Accurate readings when one is concentrating though the utilization of Operational Amplifiers strengthening desired signals
- Provides insights through graphs on the application made with React Native using Typescript
- Electrodes and Circuit cover-able by hat creating a discrete design perfect for public places



Your Legacy - In Progress First Person Shooter Game on ROBLOX

- Rigged, animated, designed, modeled View-models and assets on Blender used in game
- Personally Designed and implemented core FPS and Movement mechanics like running, climbing, and wall-jumps
- Server-sided calculations for registering, reliable, bullet hits



More projects & details can be found at my [website](#) !