

MATTHEW YU

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EDUCATION

Dr. G. W. Williams Secondary School

International Baccaureate Diploma Program

Sept, 2021 - Present

Aurora, Ontario

Math Club Co-President; Coding Club; Robotics Club;
XC running Leader; Track & Field Running Leader;
Debate Club; Ethics Bowl; DECA; Honour Roll; 4x
Repertoire

WORK EXPERIENCE

Project: Empower

Backend developer

July, 2024 - Present

Remote

- Monthly check-ins to ensure dedication and focus on goals
- Working in a team to implement a web-scraper

Mu System Corporation

Summer Internship

July, 2024 - August, 2024

Remote

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

SHAD Summer STEM Program

Design Team Member

July, 2024

Online

- Exploring and learning all 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, 2X AIME Qualifer etc...

Sept. 2019 - Present

USA Computing Olympiad: Sliver Division

Sept. 2021 - Present

Online Judges: Hundreds of solved problems in Codeforces, CSES, DMOJ, Atcoder

Sept. 2021 - Present

Canadian Team Math Competition: Top 6 Team

April 2024

1st Place at PTC Hacks: Life Under Water (First Hackathon)

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)

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



Lemniscate - Collaborative note-taking website utilizing famous, organized note-taking templates

- Made in React Js utilizing Router DOM for a fast and seamless user experience
- Firebase's NoSQL Firestore allows for quick saving of notes and files
- Various note-taking templates to choose from, allowing user customization



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