

# ALEX WAESE-PERLMAN

**Math & computer science student with a passion for problem solving.**

## EXPERIENCE

June 2024 - August 2024 **Incoming Software Engineering Intern**  
Optiver - Chicago, IL

May 2023 - August 2023 **Software Engineering Intern**  
Roblox - San Mateo, CA

- Enabled log templates to improve structured logging in over 800 repositories with minimal code changes
- Implemented service-level log de-duping which led to CPU reduction of around 3% over all services

## EDUCATION

2022 - 2025 **Bachelor of Science**  
McGill University  
GPA: 4.0/4.0

- Joint Honours Mathematics and Computer Science
- Event director for competitive programming club

## PROJECTS [\(MORE ON GITHUB\)](#)

Rust  
SQS/SNS/S3  
Docker  
React  
AWS CDK

**Poker Bot Platform**

- Led development of a poker bot competition platform with 4 other students
- Implemented poker logic engine in Rust that plays bots against each other
- Designed and implemented a matchmaking and rating system for ranking bots
- Designed using a scalable microservice architecture to run thousands of games

React Native  
TypeScript  
MongoDB  
QR codes  
PWAs

**Scouting App for FIRST Robotics Competition**  
Bloor Collegiate, Arctos Team 6135

- Developed a mobile and web app for my high school robotics team to scout other teams performance during First Robotics competitions
- Users can enter data and upload it to a central database by encoding information into QR codes since wifi devices are not allowed on the competition floor.

C  
CMake


**Neural Network in C**

- Convolutional neural network written from scratch in C. Achieves an accuracy of 82% on MNIST.

## PEER REVIEWED PUBLICATIONS

Tensorflow  
sklearn  
Pandas

**3 peer reviewed publications. See [scholar.google.com/citations?user=HxtilusAAAAJ](https://scholar.google.com/citations?user=HxtilusAAAAJ)**

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## SKILLS

Data analysis  
Competitive programming  
TypeScript  
C++  
Rust  
Java  
React  
AWS

## CONTESTS & AWARDS

**John V. Galley Scholarship** issued to one student in the Faculty of Science each year (\$1000)

**Feng Qian Award** for computer science at McGill (\$3591)

**35th place ICPC NAC** qualified in NENA region along with MIT, Harvard, Brown

**Jane Street FTTP** all expense paid 3-day recruitment program in NYC

**1st place at McGill** on NP Compete (annual programming contest) twice

**9th in Canada** on Meta Hacker Cup round 2

**35th in Canada** on Sir Isaac Newton physics contest

**75th in Canada** on Canadian Computing Contest

**98th-99.5th percentile** on Codeforces/LeetCode (master title)

**USACO Platinum**

**Problem setter for BPC1** online programming contest with over 150 participants

## TEST SCORES

AP Calculus BC: 5/5  
AP Physics C: Mechanics: 5/5  
AP Physics C: Electricity & magnetism: 5/5