ALEX WAESE-PERLMAN

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

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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
  - Recruited over 300 members through class visits
  - Organized workshops on internships and competitive programming

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=Hxti1usAAAAJ

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