

Maxwell Cruickshanks

Waterloo, ON, Canada

 maxcruickshanks ·  maxcruickshanks ·  maxcruickshanks.site

 me@maxcruickshanks.site ·  +1 (289) 380-7027

Skills

Java, C++, Go, Python, SQL, JavaScript, HTML, CSS, \LaTeX , Git, Unix, Scrum, Object-Oriented Design

Education

University of Waterloo

Sep 2022 – Present

Bachelor of Computer Science, Honours – AI Specialization

Waterloo, ON

- Cumulative GPA: 95.10% / 4.0 GPA
- Recipient of President's Scholarship of Distinction
 - Scholarship for an admission average of 95% or higher

Canadian Securities Institute

Jun 2022 – Aug 2022

Canadian Securities Course

Toronto, ON

- Learned about the financial industry, including equities, bonds, and derivatives

Work Experience

Lisplogics

May 2024 – Aug 2024

Data Scientist Intern – Algorithms and Machine Learning

Montreal, QC

- Technologies used: Go, Python

Untether AI

May 2023 – Aug 2023

Compute Kernel Software Engineering Intern

Toronto, ON

- Shrunk database stored locally by 97.5% and improved data organization and file structure
- Developed Proof-of-Concept for saturating ports on custom spatial architecture with RISC-V
- Deployed PostgreSQL database and integrated with REST API in TeamCity CI/CD for stats
- Increased throughput >400% for compute kernels for ML layers (like upsample, convolution)
- Optimized developer experience by creating Python debugging tools for creating kernels
- Technologies used: Python, C++, SQL, Git, Unix, Scrum

Centre for Education in Mathematics and Computer Science

Dec 2022 – Present

Canadian Computing Competition Committee Member

- Developed problems for Canadian IOI selection contests (CCC/CCO) and proofread them
- Technologies used: \LaTeX

DMOJ: Modern Online Judge

May 2021 – Present

Site Moderator

- Added 1000+ problems, ensured consistency across the problem set
- Organized and set 10+ contests, each with 100+ contestants
- Continually updated test data to prevent unintended solutions from passing
- Responded to contest tickets, ran integrity checks on contests
- Technologies used: Python, C++, \LaTeX

Contests and Awards

LeetCode – maxcruickshanks

- Top 200 out of 420 000 users (top 0.05%), peak rating of 2800+

Canadian Computing Olympiad 2021 – Bronze Medalist

- Placed in the top 40 out of 2920 contestants in the Canadian Computing Competition to qualify

Personal Projects

Course Scheduler

 maxcruickshanks/Course-Scheduler

- Course scheduler using C++ for minimizing workload in any term with a heuristic

Discord Bot (Using aitextgen)

 maxcruickshanks/Discord-Bot-aitextgen

- Discord bot using Java that can generate text from trained messages with Python and aitextgen

Dynamic File Storage

 maxcruickshanks/Dynamic-File-Storage

- Java peer-to-peer encrypted file transfer on LAN

Paint++

 maxcruickshanks/Paint

- Drawing tool using Java similar to Windows Paint with an infinite grid and navigated with WASD