Maxwell Cruickshanks

Waterloo, ON, Canada

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Skills

Java, C++, Python, SQL, JavaScript, HTML, CSS, LATEX, Git, Unix

Education

University of Waterloo   Sep 2022 – Apr 2027 (expected)
Bachelor of Computer Science, Honours – AI Specialization   Waterloo, ON
- Cumulative GPA: 95.70% / 4.0 GPA
- Recipient of President's Scholarship of Distinction
  - Scholarship for an admission average of 95% or higher

Work Experience

Untether AI   May 2023 – Aug 2023
Compute Kernel Software Engineering Intern   Toronto, ON
- Shrunk the local database by **97.5%** and improved data organization to ease development
- Developed programs for a custom spatial architecture while using the RISC-V instruction set
- Deployed and integrated PostgreSQL database with REST API in TeamCity CI/CD to store statistics about network performance and track regressions
- Added debugging information to failed CI tests that checked for patterns in failed outputs
- Optimized and tested compute kernels for common machine learning layers (like convolution, upsample, NMS)
- Developed Python developer tools for creating compute kernels more efficiently
- **Technologies used:** Python, C++, SQL, Git, Unix

Centre for Education in Mathematics and Computer Science   Dec 2022 – Present
Canadian Computing Competition Committee Member
- Developed and proofread problems for the Canadian IOI selection contests (CCC/CCO)
- **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
- Proofread contest problems for inconsistencies, grammatical errors
- 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
- Peak rating of 2800+, 200 out of 420 000 users (top 0.05%)

Canadian Computing Olympiad 2021 - Bronze Medalist
- Placed in the top 40 out of 2920 contestants in the Canadian Computing Competition to qualify

Personal Projects

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

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