

STEVEN WU

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EDUCATION

University of Waterloo

Sep 2022 - Apr 2026

Bachelor of Computer Science, Honours, Co-op

- **3.91** GPA, **89%** cumulative average, **90%** computer science average
- Relevant coursework in C, C++, algorithm design, OOP, data structures

EXPERIENCE

Software Engineering Co-op

Jan 2024 - Apr 2024, Sep 2024 - Dec 2024

Deephaven Data Labs

New York, NY

TypeScript, React, Redux, Docker, Playwright, Python, Java, gRPC, GitHub Actions

- Engineered gRPC API endpoints, algorithms, and components capable of **efficiently handling billions** of data points, used by **Fortune 500** companies
- Optimized **GitHub Actions CI** end-to-end tests to shorten runtime by over **75%** by modifying tests to be capable of running concurrently
- Developed PyPI Python package for **rapidly calculating JSON tree diffs**, following RFC 6902

Full-Stack Web Developer Co-op

May 2023 - Aug 2023

DocTalk

Toronto, ON

TypeScript, Python, React, Next.js, PostgreSQL, Redis

- Re-architected messaging platform to reduce response times by over **93%**, using **websockets**
- Developed **responsive** forms and pages with **REST APIs** with **Redis** and **PostgreSQL**

Robotics Software Team Lead

Dec 2021 - Apr 2022

🔗 [MGCI FIRST Robotics Team](#)

Toronto, ON

C++, Git, GitHub

- Won Ontario Rookie All-Star Team, progressed to Texas **World Championships**
- Developed C++ autonomous robotics code using real-time sensors and motor control

PROJECTS

4 Hackathon Wins + UC Berkeley AI/LLM Hackathon

2023 - Ongoing

Python, Django, Flask, TypeScript, React, React Native, Keras, Tensorflow, GPT-4, and more

- *MetHacks 2023* - Cohere Challenge **1st**, Overall **2nd** - **OCR** image-to-speech app
- *ConUHacks VIII* - Overall **2nd** - **multiface detection** and **trained ML** sentiment analyzer
- *uOttaHack V* - Noibu Challenge **1st** - Amazon review summarizing extension
- *DeerHacks 2023* - Overall **2nd** - block code website to create Python Discord bots

Course Compiler Optimization Challenge #1 Place

2024

C++

- 1st place in CS 241 bonus optimization challenge, with 18% better score than 2nd place

SKILLS

Languages: Python, C, C++, TypeScript, JavaScript, HTML, CSS, Go, Java, R, Bash

Technologies: Django, Next.js, NumPy, PostgreSQL, React, React Native, Redis, Redux, SQL

Tools: Amazon Web Services, Git, GitHub, Gradle, Google Cloud P, Ubuntu GNU/Linux