

# Victor Wang

✉ victorwang2001@gmail.com

🔄 vdoubleu

🌐 vdoubleu.vercel.app

📄 victor-yuefeng-wang

## Education

**University of Waterloo** • Bachelor of Computer Science Honours

Sept 2019 - April 2024

- Minor in Combinatorics and Optimization
- **94%** Major Average, **90%** Cumulative Average
- Relevant Courses: Algorithms, Operating Systems, Data Structures, Machine Learning, Compilers, Computer Networks

## Experience

**Outschool** • Software Engineer Intern

Sept 2023 - Dec 2023

- Improved **search autocomplete performance by 20x** through caching and eliminating redundant calls.
- Tagged disability friendly courses by parsing course description and titles for keywords using **Typescript**.

**Amazon - AWS** • Software Engineer Intern

May 2023 - Aug 2023

- Prototyped user throttling for **DocDB Elastic Clusters** using **Java** to prevent system overload and improve overall reliability.
- Reduced overall **pipeline failures for the team by 80%** by adding a set of basic tests that run during code review.

**Replit** • Software Engineer Intern

May 2022 - Aug 2022

- Created services to dynamically edit TOML and Nix files, enabling the creation of visual interfaces and additional integrations, by leveraging **CST parsers** in **Rust** and **Golang**.
- Updated Github imports to use **Nix Repls** and optimized the import flow to **outperform competitors by 50%**.

**Huawei Technologies** • Software Engineer Intern

Sept 2021 - Dec 2021

- Improved the performance of an internal **LLVM based C++ compiler by 5%** on certain workloads by hoisting and sinking atomic memory operations when vectorizing loops on **SYCL** host devices.

**Orbis Investments** • Software Developer Intern

Jan 2021 - April 2021

- Automated the delivery of certain client reports, **reducing human error by 50%**, through the creation of a utility using **C#, .Net, Angular**, and **SQL Server** to verify data within factsheets and reports.

**Dragonsoft Digital - DragonAgile** • Software Engineer Intern

May 2020 - Aug 2020

- Prototyped an Atlassian application with authenticated API routes using **ExpressJS, React, and NodeJS**, and optimized server performance to handle hundreds of requests per second.

## Projects

**OpenVtuber** • Python, PyTorch, OpenCV, Typescript, Dlib, Pytorch, Three.js [🔗](#)

- Optimized back-end logic to improve performance and usability several fold for slower machines.

**Decentralised Mahjong** • Typescript, Ethereum, Solidity, Zustand, ThreadDB, 3ID [🔗](#)

- Created decentralised Mahjong with betting using the Ethereum network and peer to peer networks.

**Lisp++ Interpreter** • Rust [🔗](#)

- Designed and implemented an interpreter for a Lisp like shell scripting language.
- Supported many standard features including variables, loops, lists, conditionals, functions, modules, and an stdlib.

## Skills

- **Languages:** Python, Java, Javascript, Rust, Go, C++, Haskell, C#
- **Tools/Technologies:** SQL, MongoDB, AWS, React, ExpressJS, Netty, LLVM, PyTorch

## Awards

- **2nd Place:** Don Mills Programming Gala - Gold Level: Local
- **Tournament Champions:** Vex Robotics Competition - Terrebonne