

# Victor Wang

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in victor-yuefeng-wang

## Education

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

Sept 2019 - April 2024

- Specialization in Artificial Intelligence, Minor in combinatorics and Optimization
- **96%** Major Average, **90%** Cumulative Average

## Experience

**Huawei Technologies** • Software Engineer

Sept 2021 - Dec 2021

- Supported the development of an **LLVM** based Bisheng **C++ compiler** and the **SYCL** framework.
- Improved loop vectorization on **SYCL** host devices for **AArch64** by hoisting and sinking atomic memory operations to increase performance by 5%.

**Orbis Investments** • Software Developer

Jan 2021 - April 2021

- Created a utility using **C#**, **.Net**, and **SQL Server** to automatically verify data within factsheets, reports, and the database enabling the automation of client report delivery.
- Automated creation of reports and charts to reduce the workload and error rate for certain business teams by **50%**.
- Implemented a search utility using **Angular**, **Typescript**, and **ASP.NET** to filter reports and issues by meta-data and content to allow business teams to easily retrieve desired information.

**Dragonsoft Digital** • Software Engineer

May 2020 - Aug 2020

- Prototyped an Atlassian application using **React**, developed authenticated API routes using **NodeJS** and **ExpressJS**, and updated server logic to improve performance and handle hundreds of requests per second.
- Setup **continuous deployment pipelines** from a Bitbucket repository to an **AWS EC2** instance increasing deployment velocity by 200%.

**SET Foundation** • Software Developer

Jan 2018 - Jan 2019

- Created, and maintained the SetHacks [🔗](#) website using **React** which regularly had 100+ views per day at its peak.
- Developed a basic electrical grid simulator using **Python** to evaluate the solutions for a design challenge

## Projects

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

- Created a fully decentralised Mahjong application with betting using the Ethereum network and leverages peer to peer networks for in game communication.

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

- Designed and developed a full body tracking module for an open-source interactive virtual presence tool.
- Optimized back-end logic to improve performance and usability several fold for slower machines.

**Lisp++ Interpreter** • Rust [🔗](#)

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

## Skills

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

## Awards

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