

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

Replit • Software Engineer

May 2022 - Aug 2022

- Created services to dynamically edit TOML and Nix files to enable the creation of visual interfaces and additional integration with Repl config files by leveraging **CST parsers** in **Rust** and **Golang**.
- Improve Github imports to use **Nix** Repls and optimized it to **outperform competitors by 100%**.

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 and reduction of human error 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 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, Javascript, Rust, Go, C++, Haskell, C#
- **Tools/Technologies:** SQL, React, ExpressJS, LLVM, TensorFlow, AWS

Awards

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