

Jinyang Yao

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Previous Experience

2021–2024

Full Stack Software Engineer

Flint Healthcare (YC20), Vancouver, BC, Canada

- Flint is a Y-Combinator backed company that helps US hospitals source international professionals. I worked as a Full Stack Software Engineer and owned a wide range of responsibilities.
- Designed, implemented and maintained the CQRS and event sourcing based platform in Haskell and Elm. The system can be scaled on read and write separately; the event sourcing design allows us to revert to any state in the past.
- Designed and implemented various company internal tools in C#, F#, and Python that automate tasks for the operation team. This includes integration with various third-party services like Intercom, Mailjet, etc.
- Maintained the AWS EKS, ECR, kubernetes cluster, CI and the deployment process.
- Interviewed software developer candidates.

2020–2021

UBC CS honours program

The University of British Columbia, BC, Canada

- An one year research project that uses machine learning techniques to automatically assess first year programming assignments. This includes designing a method to perform semi-supervised learning technique on unstructured assignment data, iterative development of an application that implements the method, and an final report with qualitative analysis on the final result.

2019

Software Developer Internship

Chongqing Univeristy, Chongqing, China

- Worked for an University research group to find the building design with the optimal energy efficiency. Implemented tools to optimize building design with multi objective constrains with NSGA-II genetic algorithm.
- Implemented a python and react based web platform to help the research group to collect, analyse and demonstrate temperature sensor data collected in realtime.

Education

2017–2021

B.S Honours in Computer Science, Minor in Mathmatics (GPA 3.8)

The University of British Columbia, BC, Canada

Skills

- C++, C, Python, Haskell
- Linux System Programming, Libfuse, Kernel Modules
- Network programming, Socket, TCP/IP
- Pthread, C++17 Threads, Libuv, OpenMP
- LLVM, ANTLR
- Qt5, ImGUI, GTK4, SDL2
- Object Orientated Design, Template Meta Programming
- GCC, Clang, GDB, LLDB, Valgrind, X86 Assembly, NASM, GCC Linker Script
- Git

Projects

- melonOS
A POSIX style operating system written in C.
- cppparsec
A header only C++ parser combinator library.

github.com/ailrk/melonOS

github.com/ailrk/cppparsec