Jinyang Yao

Vancouver, BC, Canada
+1 250-899-2600
jinyangyaop@gmail.com

github.com/ailrk
linkedin.com/in/jinyangyao

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*

- A one year research project that uses machine learning techniques to automatically assess first year prgoramming 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 Mathmetics (GPA 3.8)**
	The University of British Columbia, BC, Canada

Skills

- C++, C, Haskell, Python
- Linux System Programming, Network programming, Socket, TCP/IP
- Kernel development, Kernel debugging
- Pthread, C++17 Threads, Libuv, OpenMP
- LLVM, ANTLR
- GCC, Clang, GDB, LLDB, Valgrind, X86 Assembly, NASM, GCC Linker Script
- Object Orientated Design, Template Meta Programming
- Kubernetes, Docker, Nix, Helm, CI/CD (Github Action), LogDNA, Prometheus
- AWS, Google Cloud, Tofu, Terraform
- Postgresql, Sqlite, RabbitMQ, Redis, MongoDB
- System Design, Restful API design, Event Sourcing, DDD Modeling
- Git

Projects

- melonOS   github.com/ailrk/melonOS
  A POSIX style operating system written in C.

- cppparsec   github.com/ailrk/cppparsec
  A header only C++ parser combinator library.