

# Jinyang Yao

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## Previous Experience

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|-----------|--|---|
| 2021–2024 | <b>Full Stack Software Developer</b>   | <i>Flint Healthcare (YC20), Vancouver, BC, Canada</i> |
|           | <ul style="list-style-type: none"><li>• Designed, implemented and maintained the CQRS and event sourcing based platform in Haskell and Elm.</li><li>• Maintained the kubernetes cluster, CI and the deployment process.</li><li>• Interviewed software developer candidates.</li></ul> |   |
| 2020–2021 | <b>UBC CS honours program</b>  | <i>The University of British Columbia, BC, Canada</i> |
|           | <ul style="list-style-type: none"><li>• Using machine learning techniques to automatically assess first year programming assignments.</li></ul>  |   |
| 2019      | <b>Software Developer Internship</b>   | <i>Chongqing Univeristy, Chongqing, China</i>         |
|           | <ul style="list-style-type: none"><li>• Implemented tools to optimize building design with multi objective constrains. Implemented Flask and React based platform to aggregate and demonstrate sensor data.</li></ul>  |   |

## Education

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|-----------|---|
| 2017–2021 | <b>B.S Honours in Computer Science, Minor in Mathmetics</b> |
|           | <i>The University of British Columbia, BC, Canada</i>       |

## Skills

- Working Languages: Haskell, C, C++, C#, Typescript, Python
- Haskell: Servant, Scotty, Effect System, DSL Design
- C++: LLVM, Qt, SDL2, Template Meta Programming
- C: GTK4, Linux Programming, libfuse
- C#: ASP.net, Unity3D, Giraffe
- Python: Flask, Numpy, Sklearn
- Frontend: ReactJS, HTMX, Hyperscript, VueJS, Sentry, Pure CSS
- System Programming: GDB, LLDB, Valgrind, X86 Assembly, NASM, GCC Linker Script
- Storage: Postgresql, Sqlite, RabbitMQ, Redis, MongoDB
- Cloud Tools: Kubernetes, Docker, Nix, Helm, Github Action, LogDNA, Prometheus
- Cloud Platforms: AWS, Google Cloud, Tofu, Terraform
- System Design, RESTFUL API design, Event Sourcing, DDD Modeling

## Projects

- melonOS [github.com/ailrk/melonOS](https://github.com/ailrk/melonOS)  
A POSIX style operating system written in C.
- cppparsec [github.com/ailrk/cppparsec](https://github.com/ailrk/cppparsec)  
A header only C++ parser combinator library.