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*

- 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#, Python, Typescript, Haskell
- ASP.net, Giraffe, Unity3D, ANTLR, Flask, Qt5, sklearn, Numpy, Pandas, Django, Servant, Yesod
- Kubernetes, Docker, Nix, Helm, CI/CD (Github Action), LogDNA, Prometheus, AWS, Google Cloud, Tofu, Terraform
- Postgresql, Sqlite, RabbitMQ, Redis, MongoDB
- ReactJS, HTMX, Hyperscript, VueJS, Sentry, Pure CSS, Babel, GruntJS, Webpack
- System Design, Restful API design, Event Sourcing, DDD Modeling
- DOM, HTTP, Websocket, SSE
- Unit testing, Integration testing
- Object Oriented Design, Functional programming
- Git

Projects

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

- filehub github.com/ailrk/filehub
  A file manager for self hosting.