JINYANG YAO

I jinyangyaop@gmail.com · **()** github.com/ailrk · **I** ailrk.github.io/home · **in** linkedin

EDUCATION

The University of British Columbia, Kelowna, Canada

2017 - 2021

B.S. Honor in Compuster Science, Minor in Mathematics, Avg 86.9/100, GPA 3.95/4.33

EXPERIENCE

Flint Healthcare Fullstack

Vancouver, Canada, 2020 Jan -2024 Feb

Maintains a scalable platform that helps US hospitals to source, licence, and onboard international talents.

- Designed and implemented a CQRS and event sourcing based architecture in Haskell.
- Implemented and maintained business services in Haskell and Elm.
- Maintained the kubernetes cluster.
- Maintained CI processes with nix and github action.
- Interviewed software developer candidates.
- Implemented tools to improve automation of development and operation processes.

Chongqing University Intern

Chongqing, China , 2019 Summer

Joined a project that aims to Optimize the thermal efficiency of building designs.

- Implemented a program to select the optimal building design that satisfies some multiobjective constraints.
- Implemented a web platform that collects, manages, and displays temperature data from sensors installed across provinces.

UBC CS honor program

2020 - 2021

Using machine learning techique (semi-supervised learning) to assess first year programming assignments.

PERSONAL PROJECTS

cppparsec

github.com/ailrk/cppparsec

A C++ monadic parser combinator inspired by Haskell's parsec library.

Blgol60

github.com/ailrk/blgol60

A haskell implementation of Algol60.

SKILLS

Programming languages: Experienced in Haskell, Elm, F#, Typescript, Python; comfortable with C++, C, C#, Racket, Matlab, Erlang

Web development: RESTFUL api designs, CQRS, Event Sourcing, DDD modeling, Postgresql, RabbitMQ, React, Elm, Vue, System design

Programming language theory: Denotaional semantics, Lambda Calculus, Type theory, Abstract machine

Compiler: Embedded DSL, External DSL, Parsing techniques, Familiar with various program analysis techniques and backend optimizations.

Tools: Git, CMake, Makefile, Nix

Team: Worked with teams that use Slack, Notion, Bitbucket

Others: English - Fluent, Chinese - Native.