

JINYANG YAO

jimmy123good@hotmail.com
github.com/ailrk
ailrk.github.io/home
(250) 899 2600

EDUCATION

The University of British Columbia, Kelowna, BC, Canada **2017-Present**
Current third year undergraduate student. Major in Computer Science, minor in Mathematics

WORK EXPERIENCES

- **2016 Summer:** Shanghai Liyang Software
First time working for a tech company.
- **2019 Summer:** Chongqing University HVAC department
Developed an optimization program to find the optimal building design to minimize the energy consumption and cost.
- **2019 Summer:** Chongqing University HVAC department
Participated the “Yangzi River area air conditioning and heating solution and its corresponding systems” in the HVAC department (in civil engineering) of Chongqing University. Designed and implemented the project’s web platform.

PROJECTS

- Chongqing University’s HVAC platform** github.com/ailrk/135Server
A flask backend for the Chongqing University 135 HVAC project. It collect and manage temperature and humidity data from different sources the Chongqing University worked with from 2019.
- Chongqing University’s HVAC frontend** github.com/ailrk/135client-react
A react and typescript based frontend for the aforementioned project.
- A static blog markdown manager** github.com/ailrk/markdowndb.macro
Blog building tool. Managing markdown files at compile time and providing easy to use runtime interface.
- A toy compiler made with haskell** github.com/ailrk/naplang
A compiler for a toy imperative language, it compiles to llvm-ir with haskell llvm binding.

SKILLS

- **Programming Language:** Familiar with Python, TypeScript, Haskell, Rust, C, C++, Racket.
- **CPython: 4 years of experience:** Familiar with flask web framework and sqlalchemy database ORM. Understand underlying Cpython data structures’ implementation in C. Familiar with python concurrency model.
- **Web developement** Familiar with **Flask, React, Vuejs, Nodejs, and Sqlite.**
- **Compiler:** Familiar with parsing techniques and compiler optimization process. Worked with some llvm and babel AST code transformation.
- **Math:** linear programming, dynamic system, number theory, abstract algebra
- **Language:** Have been living in **English** Speaking country for more than 3 years, received band 7 for IELTS in 2017. Native **Chinese** speaker. Learning **Japanese.**

COMMUNITY EXPERIENCES

2019 Summer: Joined UBC programming competition.