

# Jialin Liu

3rd Year Computer Science Major,

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## Skills

\*currently learning

*Programming Languages*

: Java, Python, C++, C, TypeScript, \*JavaScript, PHP, HTML

*Tools*

: GitHub, IDEA IntelliJ/Webstorm, VS Code, Postman,

*Technologies*

: React, MongoDB(Mongoose), Oracle, Express, Heroku, Docker

## Projects

### Scholar Chat (Full Stack)

Technology: Javascript, React, MongoDB.

May 2020 - Current

- Participated in developing and deploying an online tutoring website for college students where they can post and answer questions, and chat with tutors face to face.
- Learned various popular technologies, such as React(Hooks, Redux), material-ui, mongoDB, Express, GraphQL, OAuth, heroku..

### Graph Domain Specific Language Project (DSL)

Technology: JGraph, Java

Sept 2019 - Jan 2020

- Developed a domain specific language for graph which allows users to define a graph, perform graph traversal algorithms (BFS,DFS, Prim,Dijkstra), and display it in animation.
- Participated in implementing every key component of the project including: the parser, the interpreter, the intermediate structure, and a list of graph features.

### Courses Query Engine (TypeScript)

Technology: TypeScript, IntelliJ, Restify

Sept 2019 - Jan 2020

- Applied decorator design pattern and back-tracking recursion technique to develop a program with frontend and backend that is able to perform a query over a large dataset with over 2000 pieces of data.
- Implemented a courses scheduling algorithm, using greedy algorithms, which schedules a list of over 100 courses in a given list of buildings in a way that minimizes the distance and maximizes total enrollment.

### Todo List Application (Java)

Technology: Java, IntelliJ, JUnit,

Oct 2018 - Jan 2019

- Followed Test Driven Design and implemented a task management project which allows users to add and manage tasks and projects with deadlines and priorities on a Todo list.
- Integrated different design patterns into our projects to improve overall performance and readability, such as Composition Pattern, Observer Pattern, and Iterative Pattern.

## Work Experience

### Volunteer Victoria, Victoria

August 2015 - August 2016

Office Assistant / Data Entry

- Assisting the Youth Connections Coordinator with data entry and social media updates
- Gained general office skills and experience
- Commits two hours every week over the course of one year

## Education

University of British Columbia -Bachelor of Science (Computer Science)

September 2018 - Current