

# Chrysen Park

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## SKILLS

### PROGRAMMING

- Java
- Python
- Javascript
- C++
- MySQL
- REST APIs
- Html
- Node.js
- React
- Linux

### NON-PROGRAMMING

- Very fast and adaptable learner
- Experienced with working in a team
- Great oral/writing communication skills
- Duel Citizen: USA and Canada

## EDUCATION

### UNIVERSITY OF BRITISH COLUMBIA

INTEGRATION OF  
COMPUTER SCIENCE AND  
ENVIRONMENTAL SCIENCE, B.Sc,  
September 2015 - May 2020  
Vancouver, BC

## LINKS

Github:// [chrysenpark](#)  
LinkedIn:// [chrysen-park-57169514a/](#)  
Personal Website:// [jchrysenpark.com](#)

## COURSEWORK

Advanced Software Construction  
Data Structures  
Algorithm Design and Analysis  
Intelligent Systems  
Relational Databases  
Advanced Artificial Intelligence  
Machine Learning and Data Mining  
Energy, Environment, and Society

## ACTIVITIES

- NW Hackathon Top 20
- Local Hack Day
- Internapalooza 2020
- Vice President of Environmental Science Students Association

## EXPERIENCE

### JUNIOR SOFTWARE DEVELOPER | LIFE SCIENCES INSTITUTE

September 2019 - May 2020 | Vancouver, BC

- Created workflows from existing shell scripts using a python library called Metaflow to execute tasks in a more systematic way for the IT lab department.
- Led the installation, data collection, and integration of a data management system for a lab's jumbled metadata.

### SOFTWARE ENGINEER | INSTITUTE FOR RESOURCES, ENVIRONMENT AND SUSTAINABILITY

May 2019 - September 2019 | Vancouver, BC

- Created an interactive mapping application that enhances the visualization of specific types of air pollution in Vancouver, Montreal and Toronto in R.
- Demoed at a conference to help researchers visualize the current environmental injustices in certain demographics/regions.
- Self taught myself R and R Shiny in less than two weeks.

### TEACHING ASSISTANT | UBC COMPUTER SCIENCE DEPARTMENT

September 2018 - December 2019 | Vancouver, BC

- Led labs weekly and walking 30+ students through coding challenges until completion 2-3 times a week
- Enhanced debugging skills weekly by holding office hours to assist students with certain topics/code.
- Finished grading of exams one day after they were written for over 900 students to give instant feedback and have optimal time to improve.

## PROJECTS

### HIPHOP-LANG Python

- Concocted an image processing DSL (Domain specific language) that could execute transformations from string commands such as blurring, gray scaling, eroding, dilating, outline, cropping, and filtering.

### ANDROID TRANSIT APPLICATION Java

- Constructed a transit application in java that kept track of bus and stop locations, bus times, closest bus stop and all routes given a bus. Mastered the core principles of object oriented programming through constructing abstract classes with their functions and attributes.

### NBA ALL-STAR BATTLE React, mySQL, Express

- Created an interactive gaming website with an integrated SQL database that allowed two users to build their own NBA rosters from a budget and battle each other based off of their chosen players' stats with a small randomized component.

### COURSE FINDER TOOL TypeScript

- Created a tool that could parse through JSON files of courses and query specific courses dependent on a selected statistic such as average, professor, title, and more. Extensive unit tests were wrote to ensure correct functionality for each step.

### PERSONAL WEBSITE JavaScript, Html

- Transformed my portfolio to website form to display my experience and skills in a more interactive and enjoyable way.